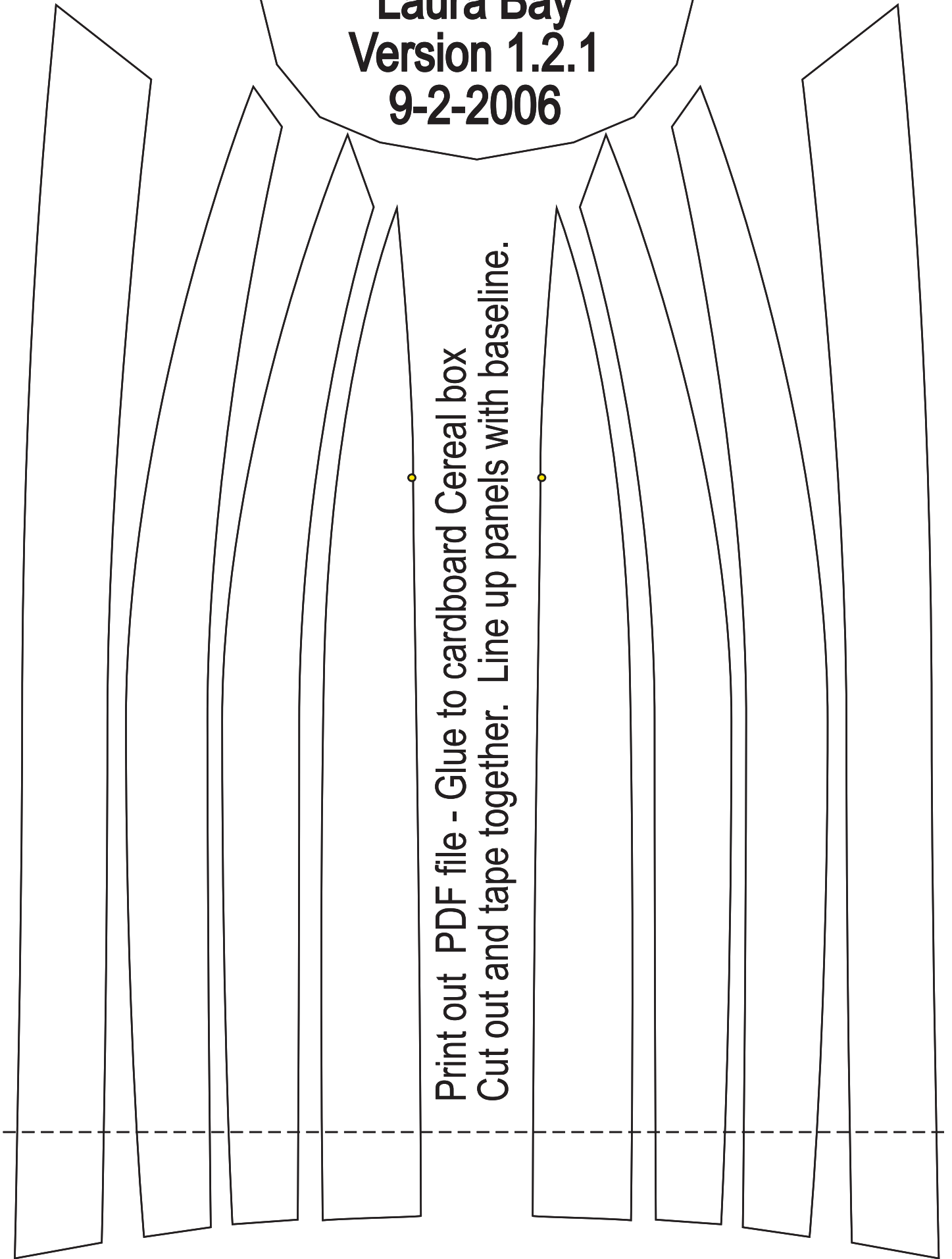
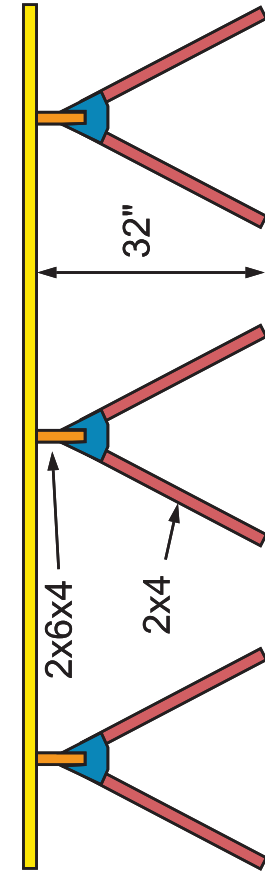
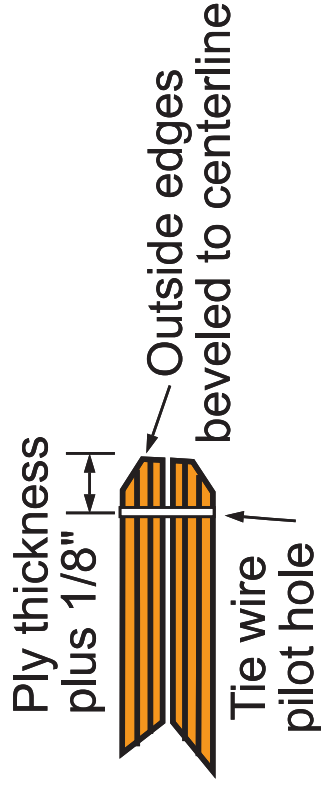
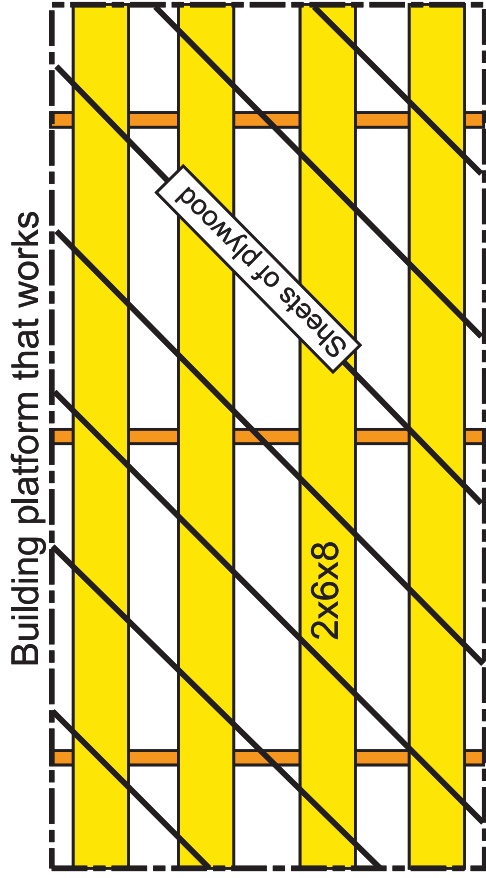


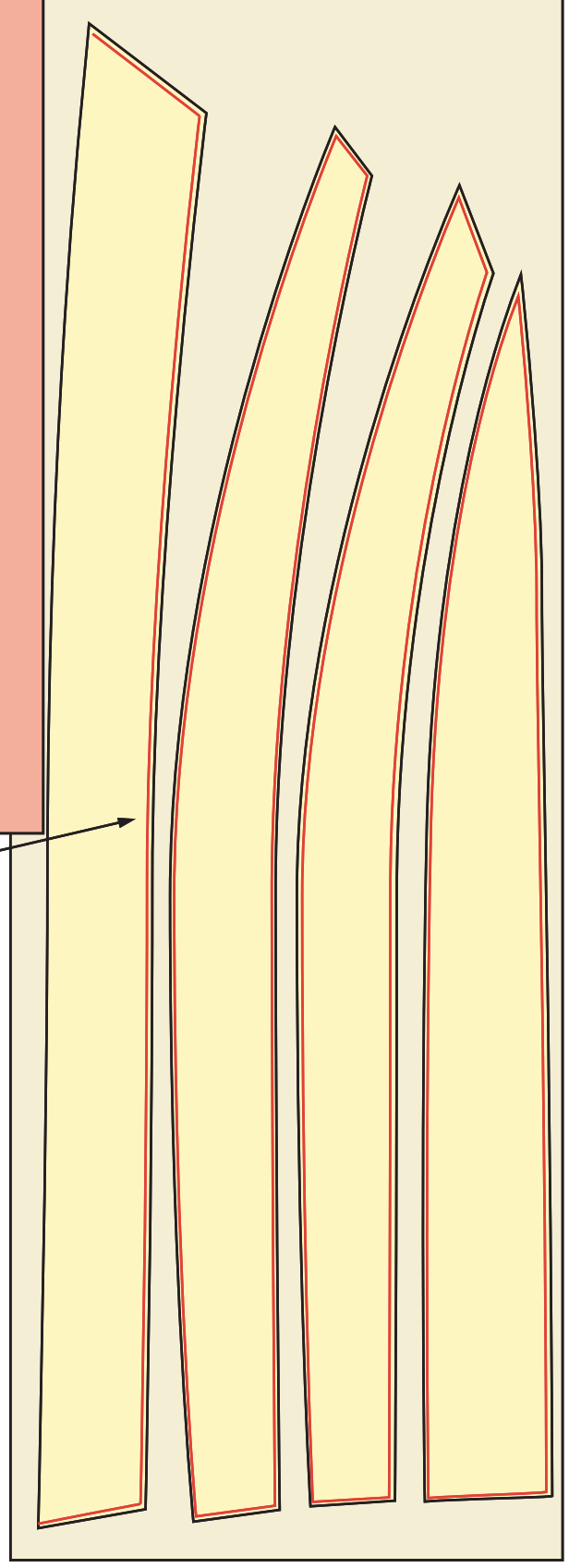
Laura Bay
Version 1.2.1
9-2-2006

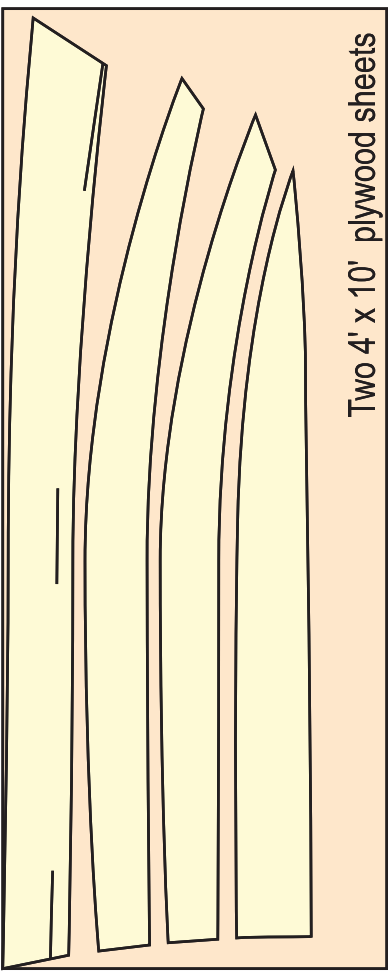
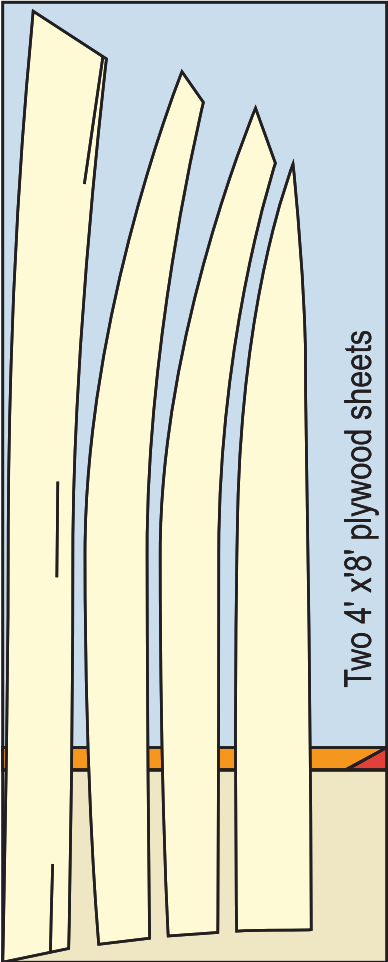
Print out PDF file - Glue to cardboard Cereal box
Cut out and tape together. Line up panels with baseline.





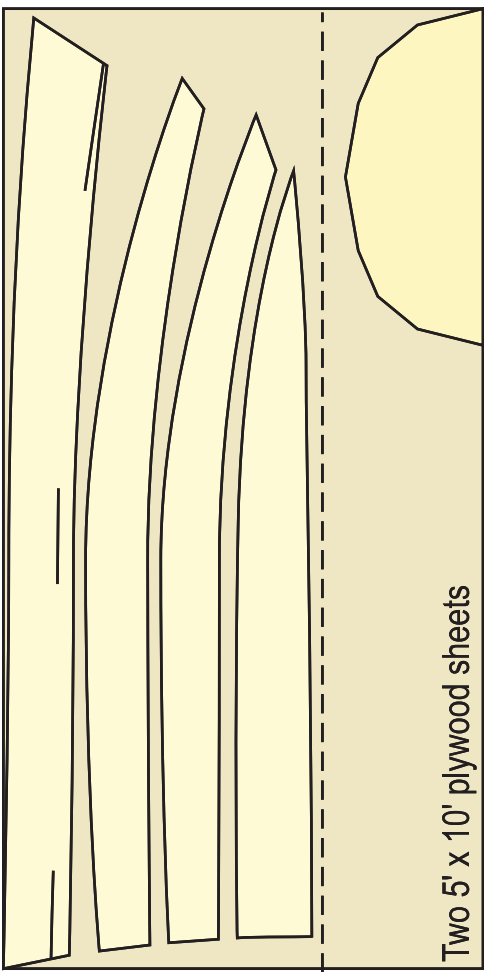
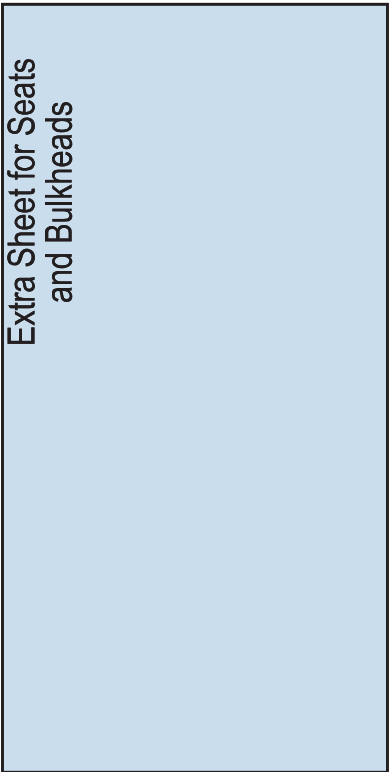
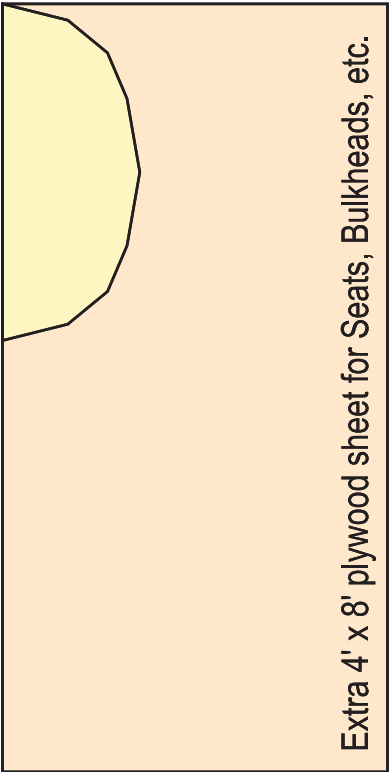
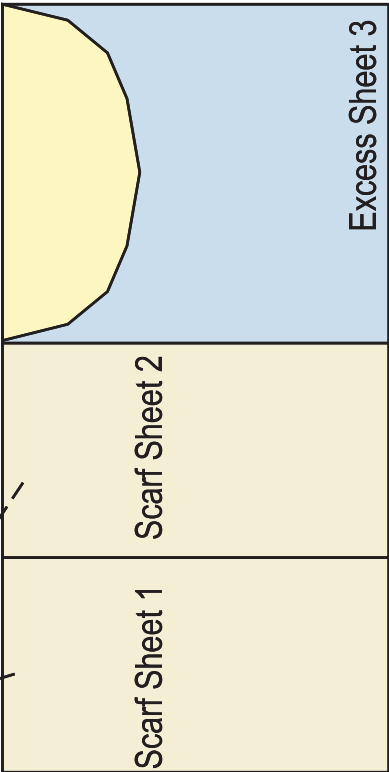
The red lines are the ply thickness plus 1/8". Mark all edges, except the sheerline. Pre-drill only, all the edges of the bottom panels, and only the "top" edges of the middle panel above only during assembly.

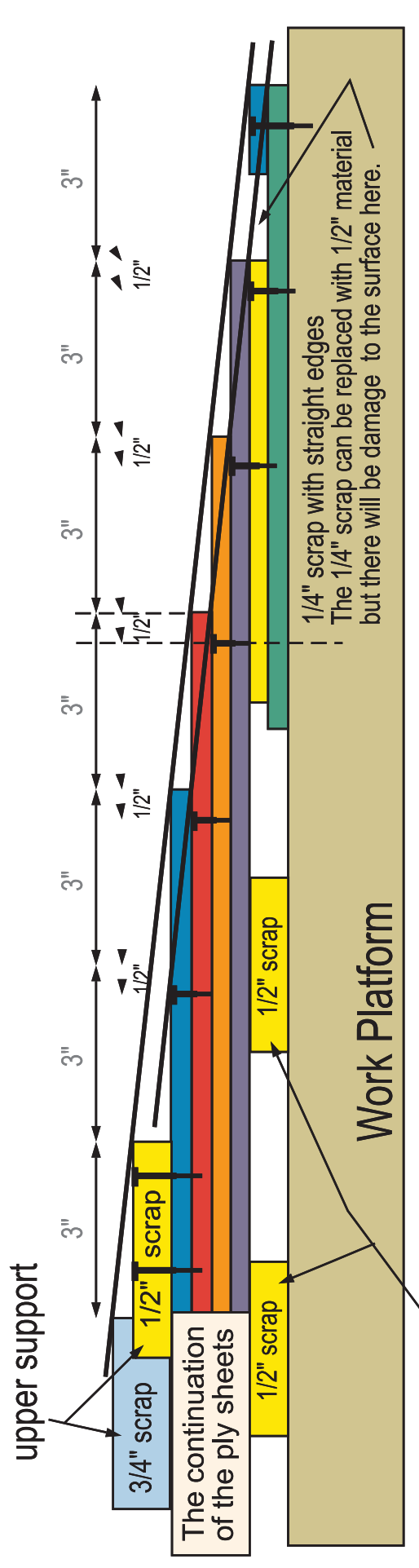




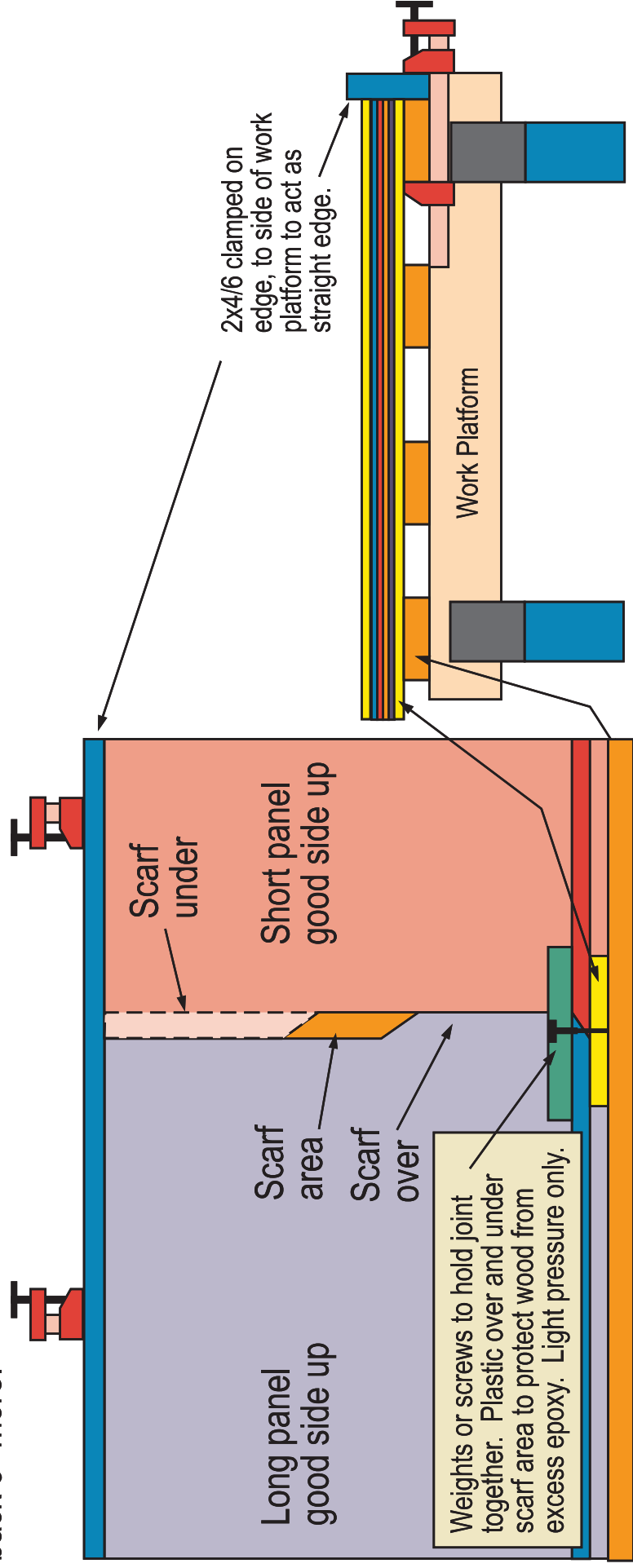
Plywood layout page

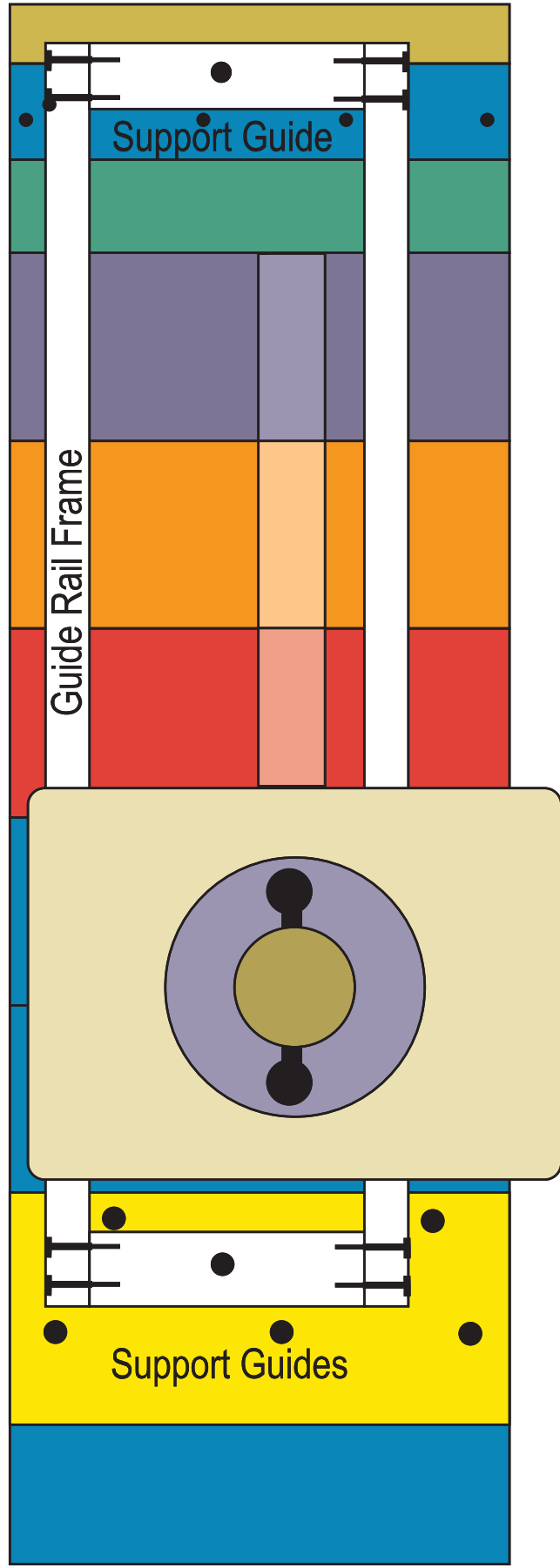
Use for
planning
Only!





The "bottom lift" can be 3/4" material, but the "upper support" has to remain 1/2" material. It can be increased to 3/4" material if it is set back 3" more.

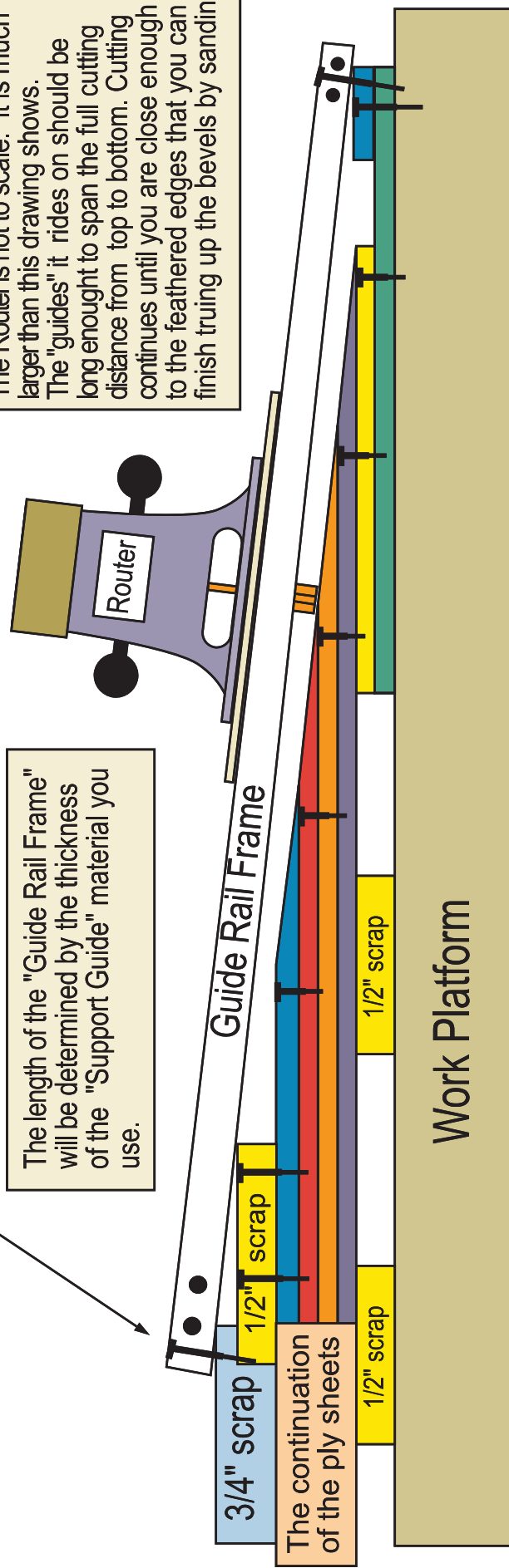




Temporarily screw router "Guide Rail Frame" to the "Support Guides".

The length of the "Guide Rail Frame" will be determined by the thickness of the "Support Guide" material you use.

The Router is not to scale. It is much larger than this drawing shows. The "guides" it rides on should be long enough to span the full cutting distance from top to bottom. Cutting continues until you are close enough to the feathered edges that you can finish truing up the bevels by sanding.



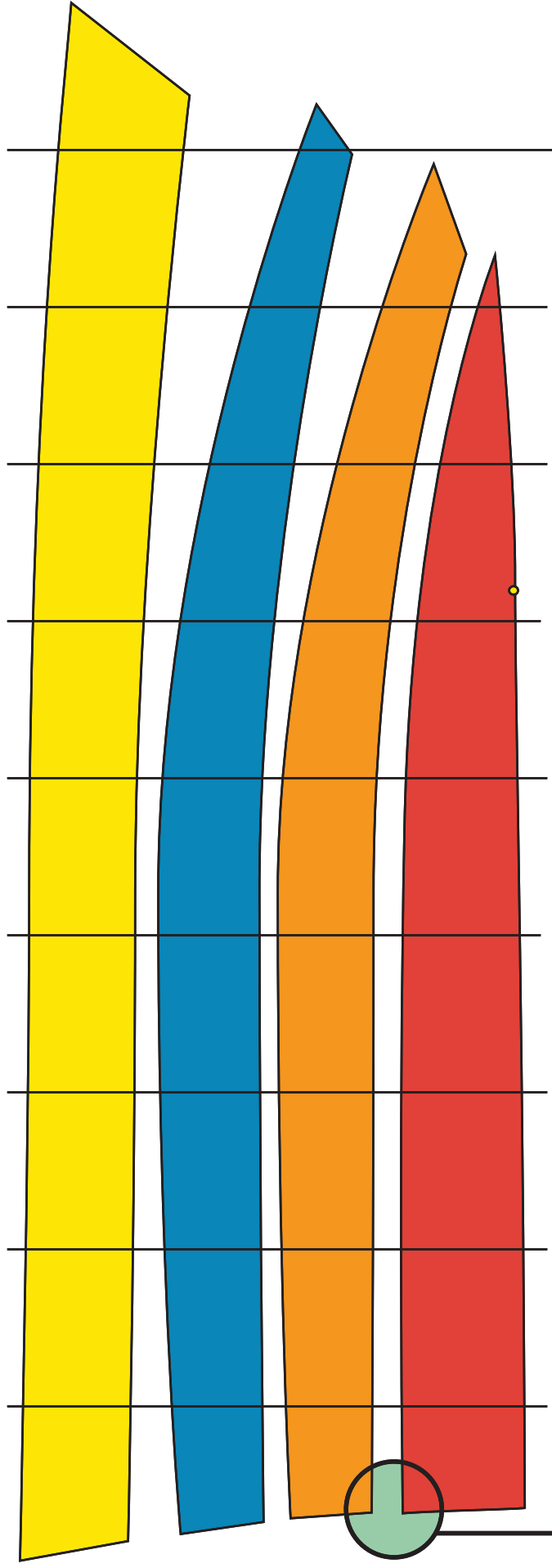
3/4" scrap

The continuation of the ply sheets

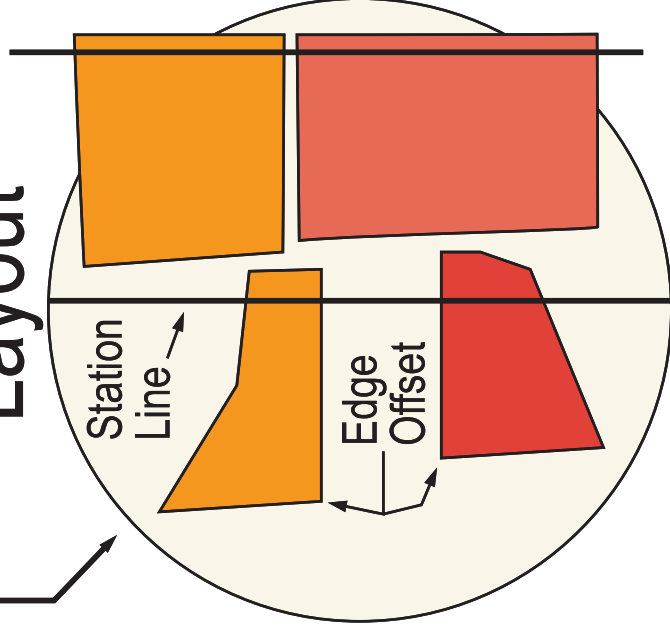
1/2" scrap

1/2" scrap

Work Platform



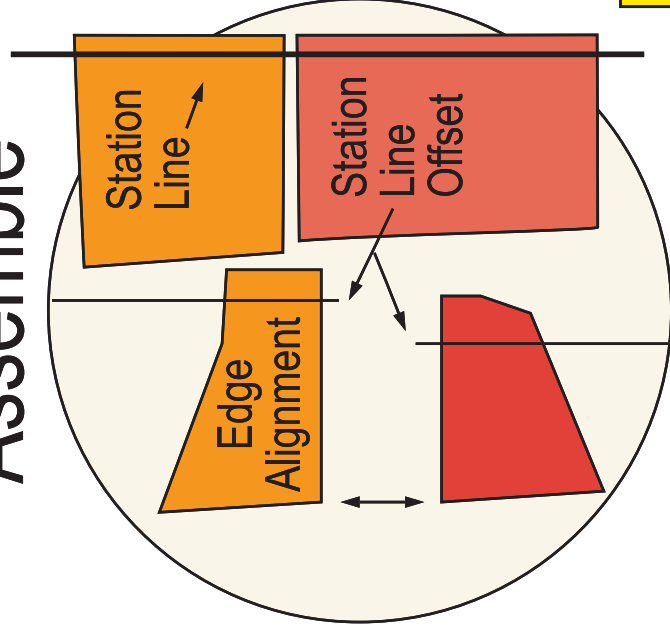
Layout

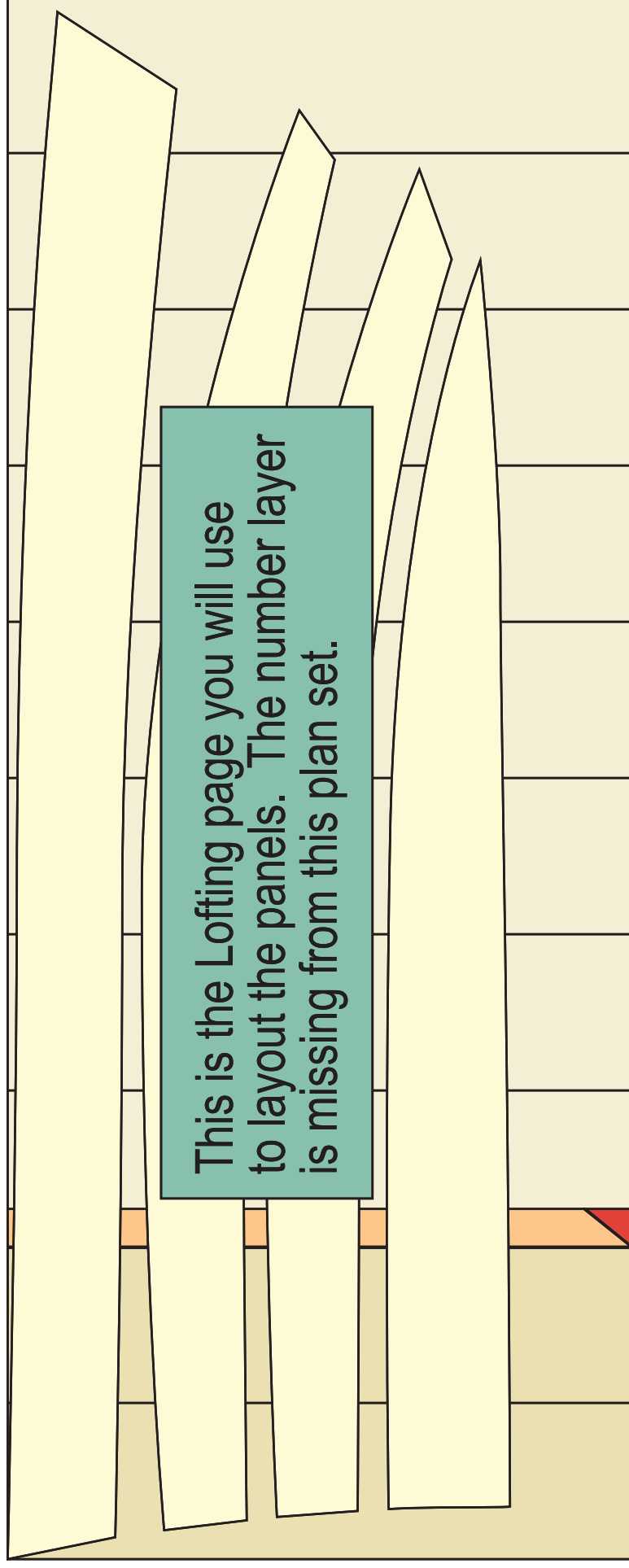


Note: Due to variables in the design process and the offset of straight lines from a flat surface to the arc of a curve; align the "cut" stern corners during assembly.

Remember to check the matching edge lengths of each panel while lofting. They should be within 1/4" of each other.

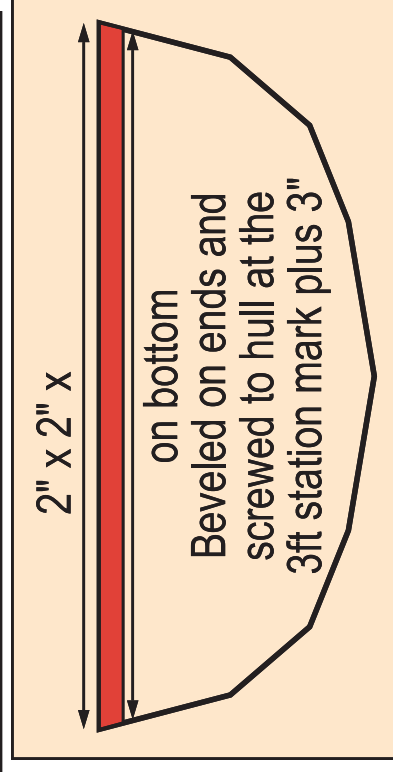
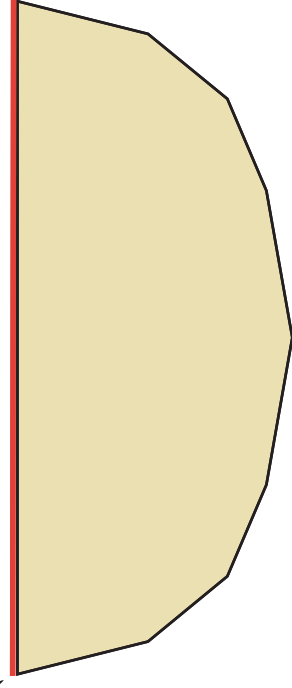
Assemble

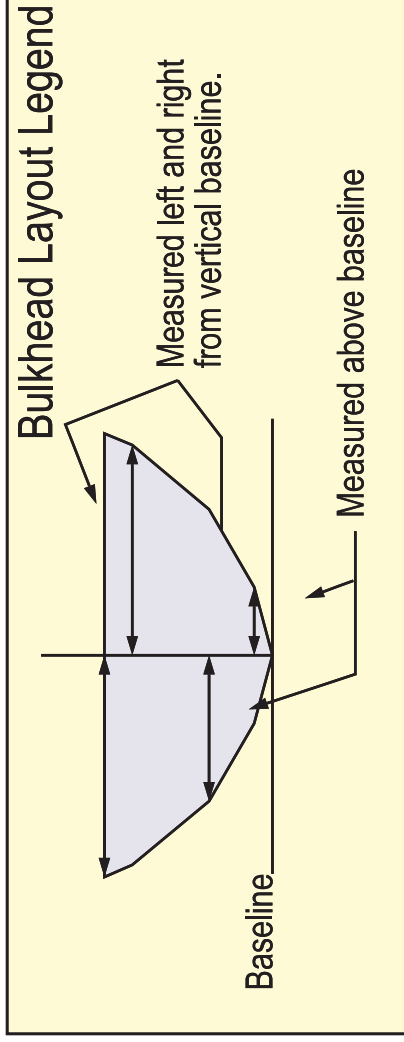




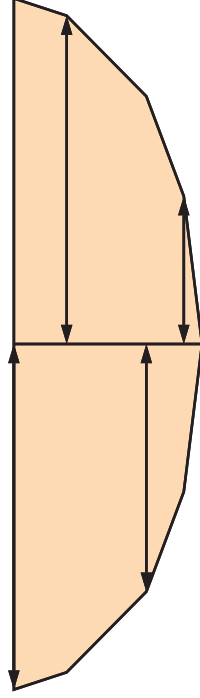
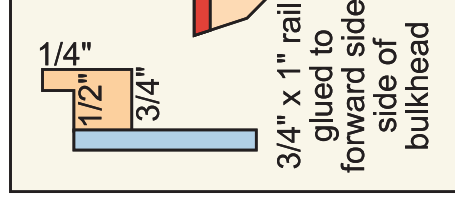
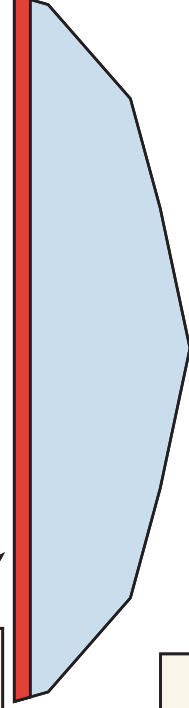
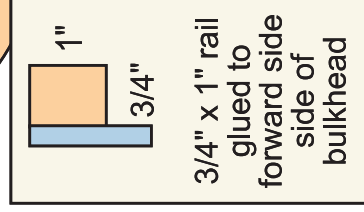
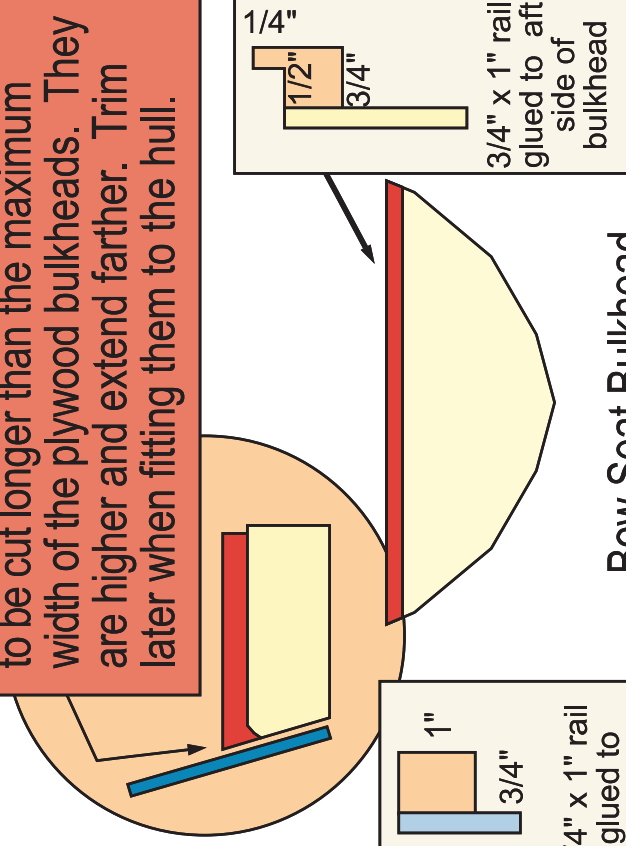
Line up the stern corners when assembling! Not the station lines!

Note: Leave 1/8" to 1/4" of extra trim along the top edge as a buffer for joining to the side panels later. This can be trimmed off after installing the rails.





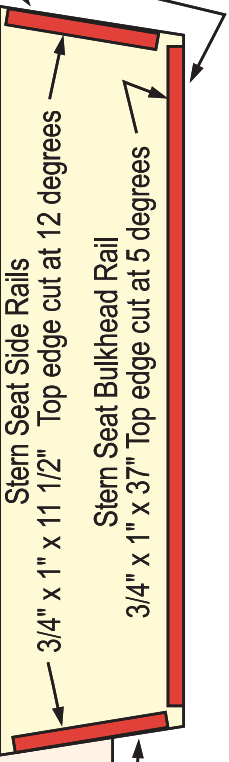
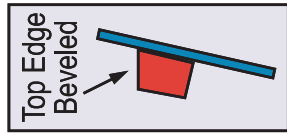
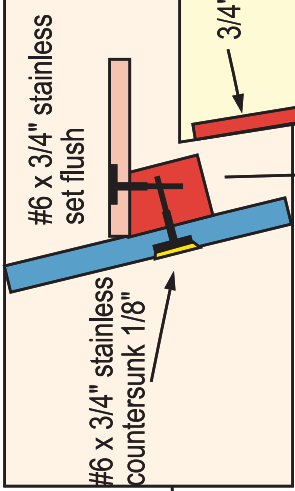
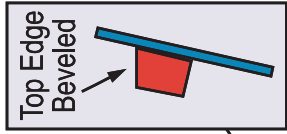
Caution: The bulkhead trim rails need to be cut longer than the maximum width of the plywood bulkheads. They are higher and extend farther. Trim later when fitting them to the hull.



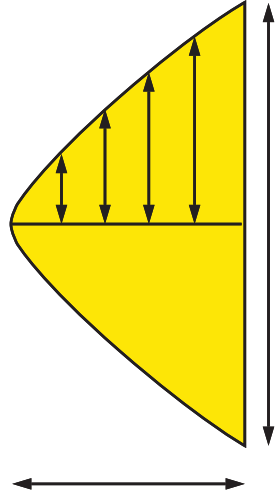
Stern Seat Bulkhead

3/4" x 1" x 8" rails with 18 degree bevel cut in top edge to support seat.

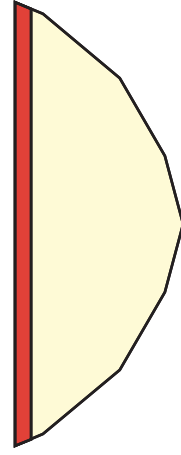
Scrap cut and rounded to fit. Held in place with epoxy.



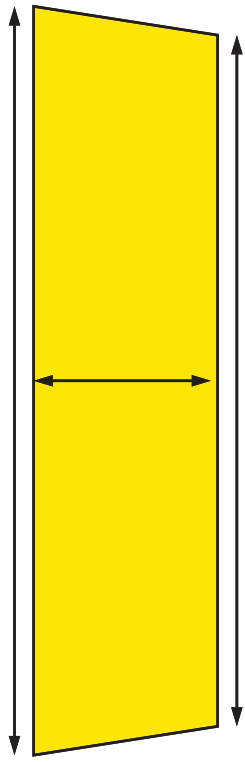
This is a bear to make. Cut oversize and trim to fit; working both sides as you go. Square and level with the bow seat bulkhead after the seat fits the hull.



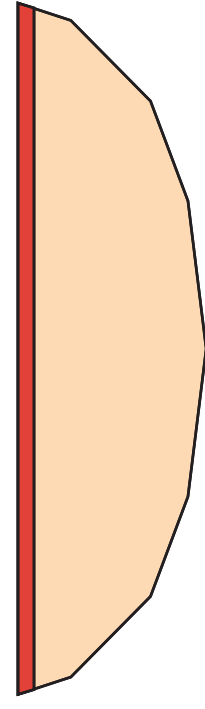
Bow Seat Dimentions



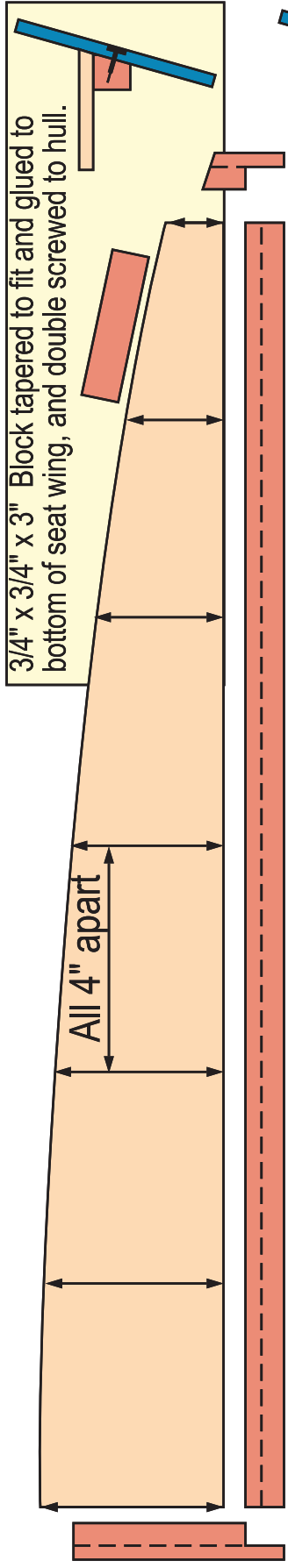
Bow Seat Bulkhead



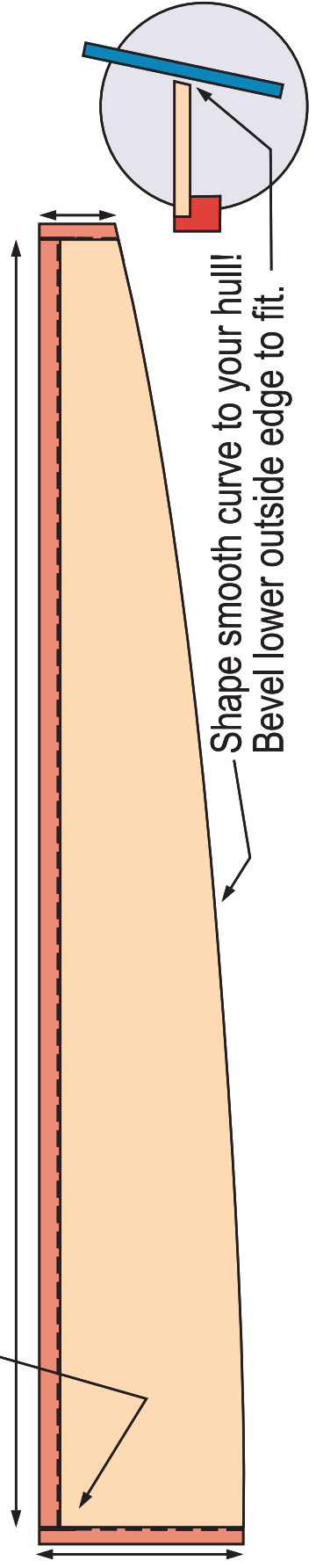
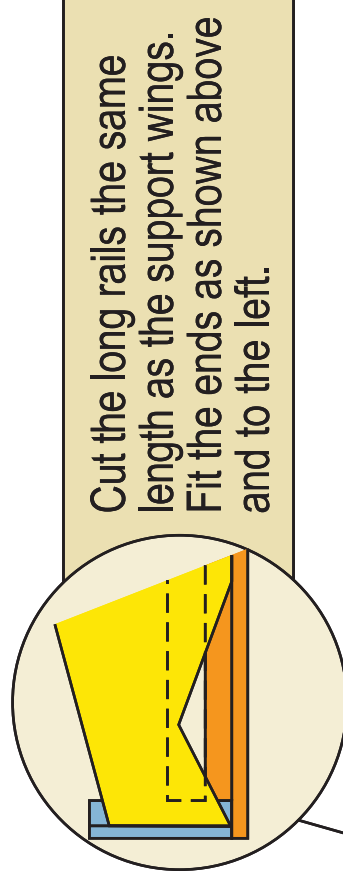
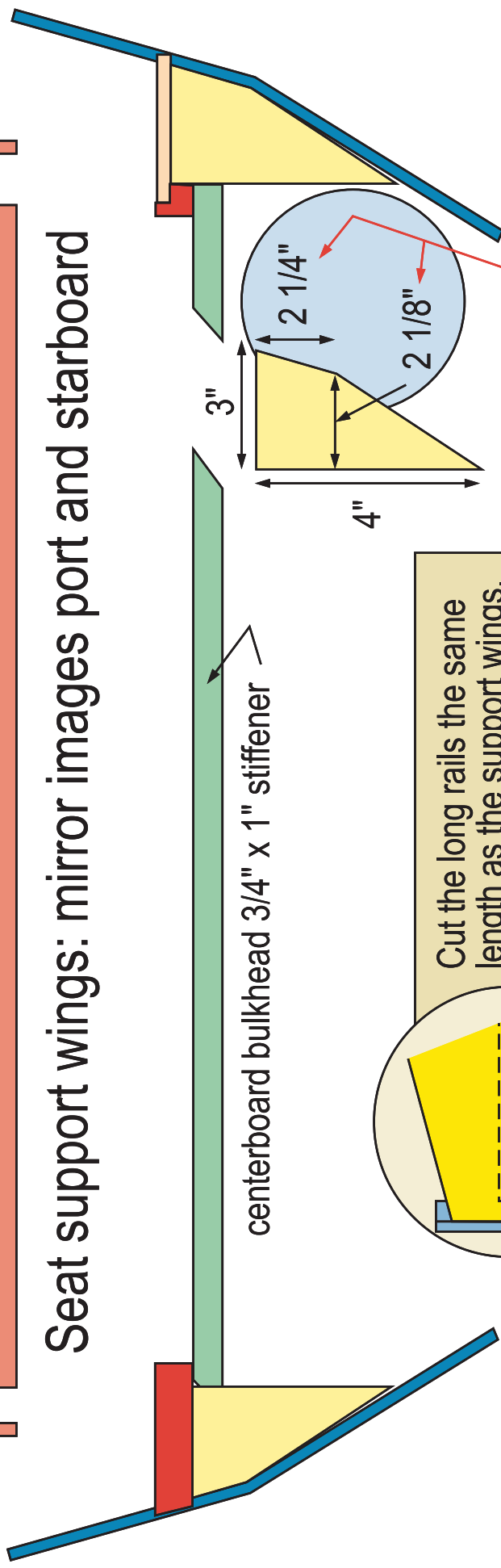
Stern Seat Dimentions



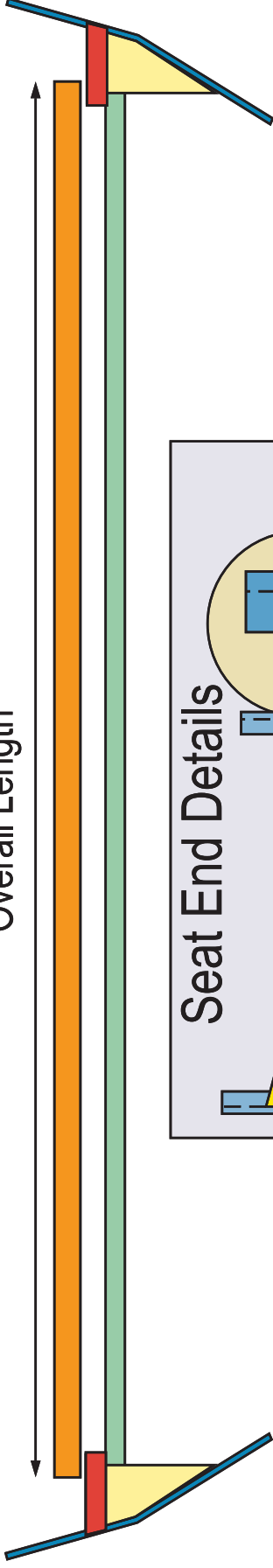
Stern Seat Bulkhead



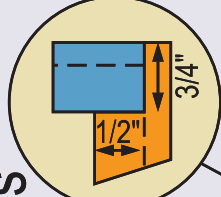
Seat support wings: mirror images port and starboard



" Overall Length



Seat End Details

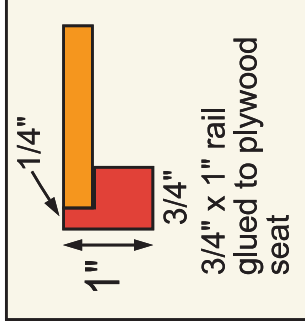


1/4" -6mm plywood

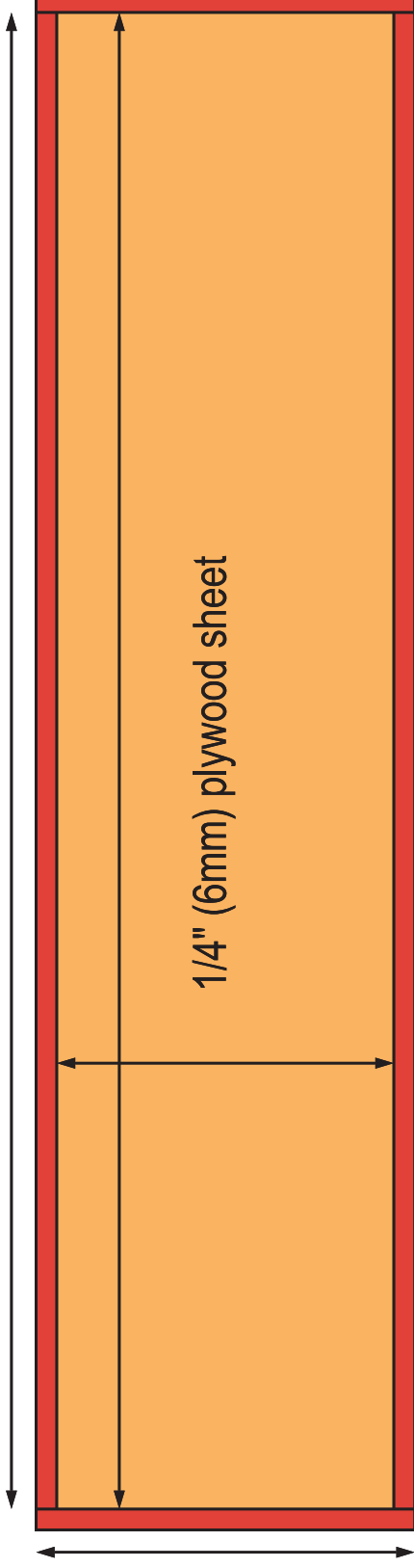
3/4" x 1/2" notched ends

1/4" x 1/2" notch

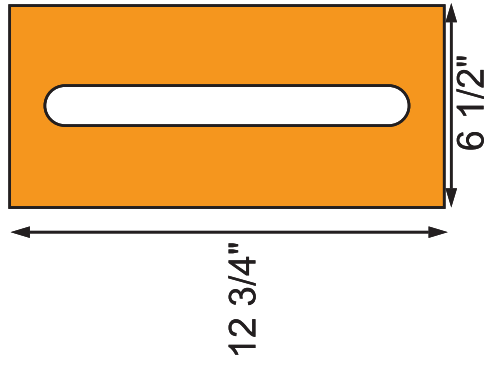
Plywood and side rails are cut to the same length. End rails are cut to overlap the ends of the side rails and relieved to fit between them.



Seat Side Rails 3/4" x 1" x

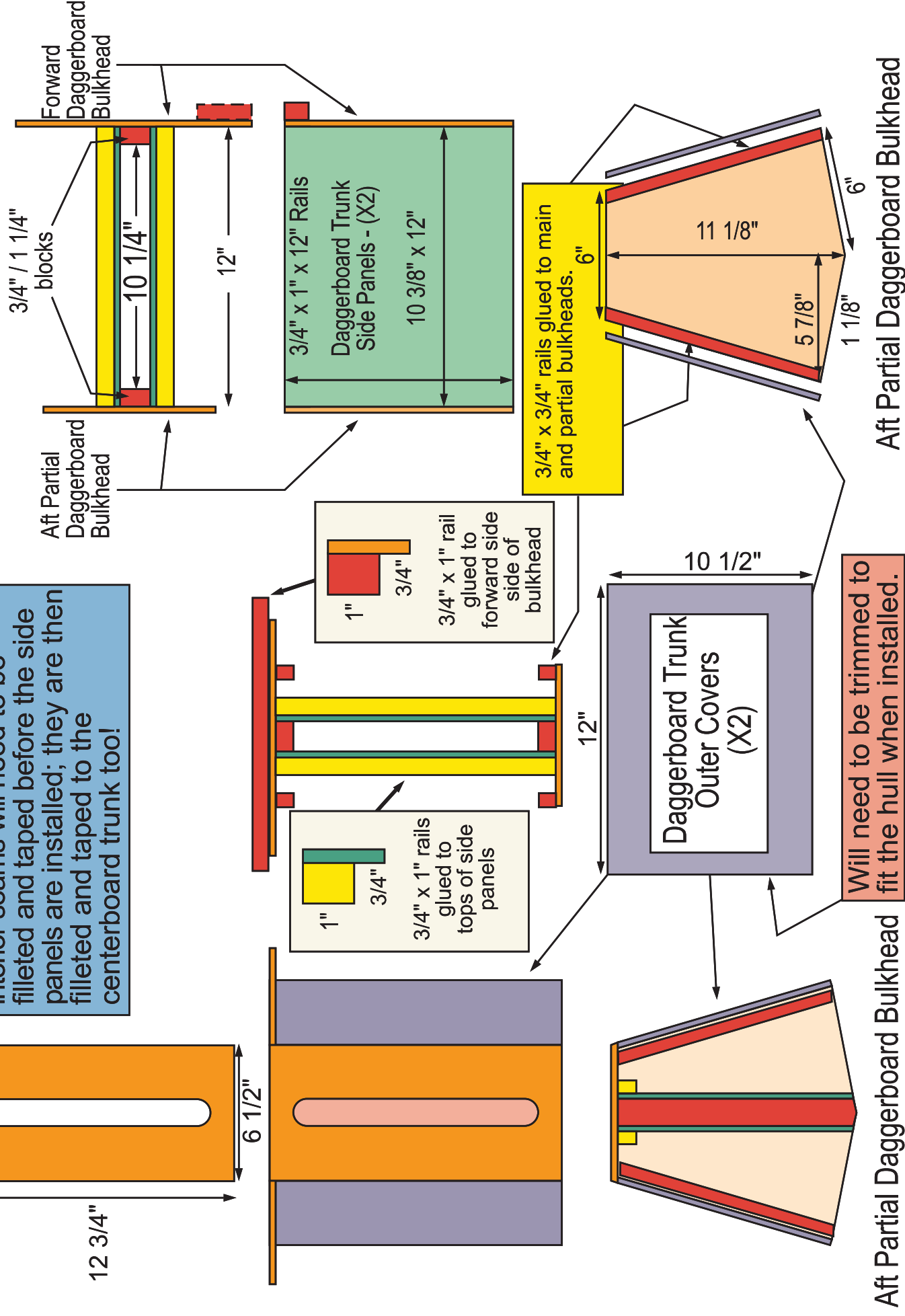


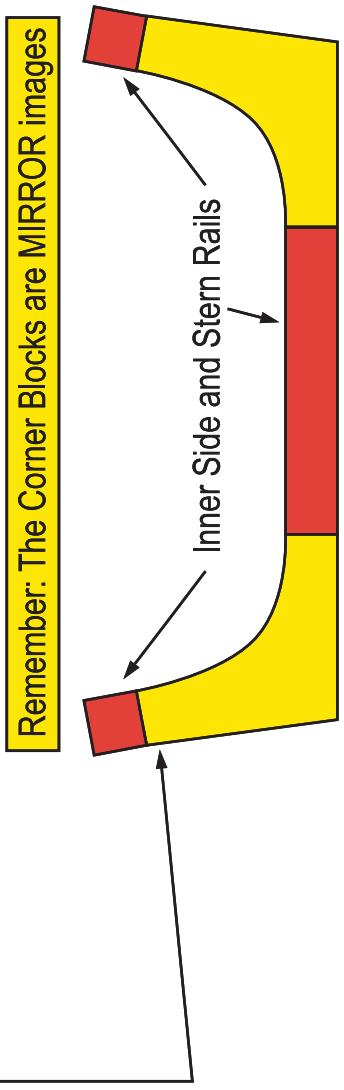
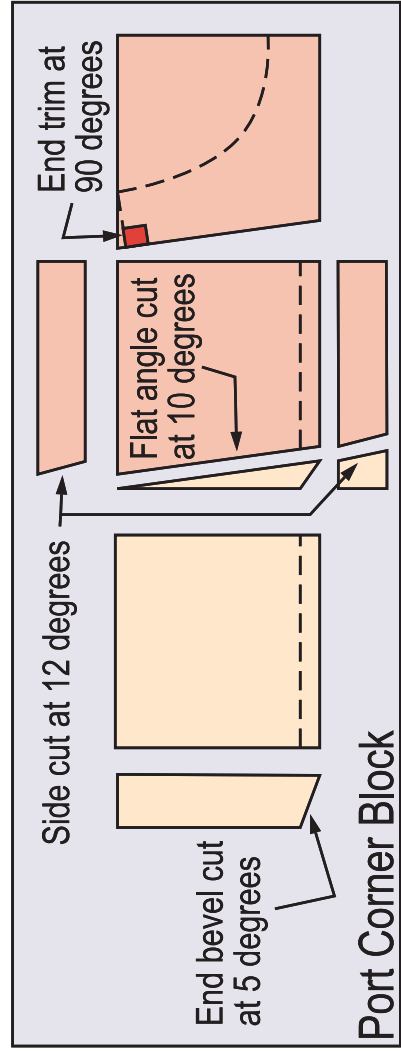
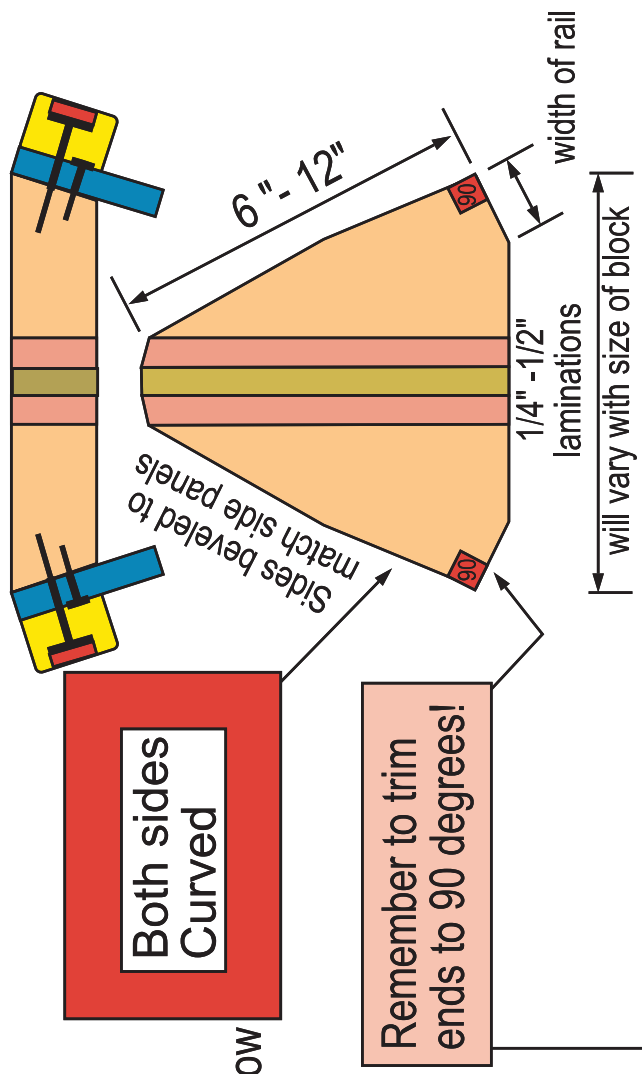
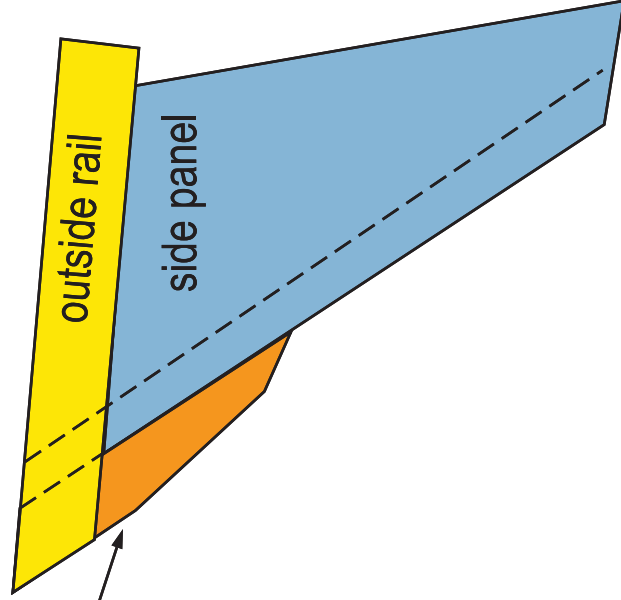
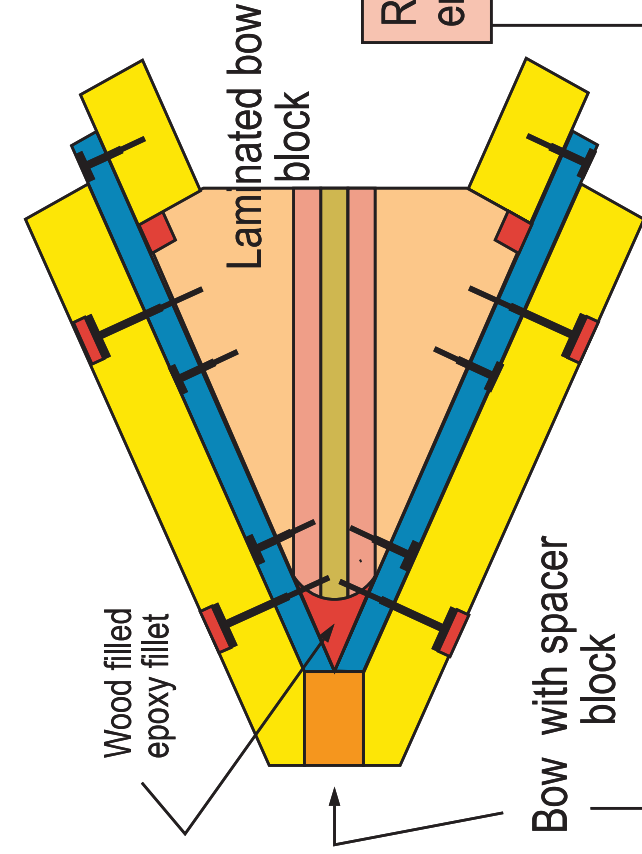
1/4" (6mm) plywood sheet

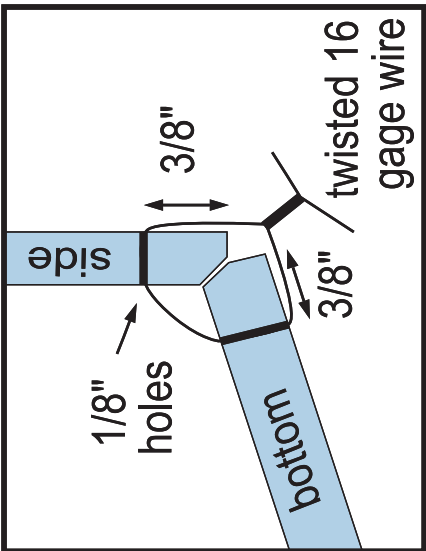
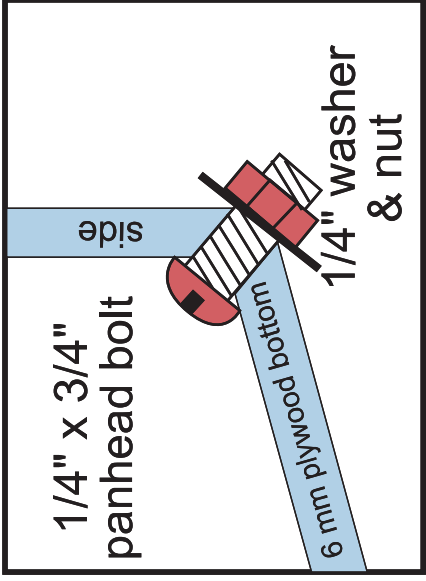


All Daggerboard trunk to bulkhead interior seams will need to be filleted and taped before the side panels are installed; they are then filleted and taped to the centerboard trunk too!

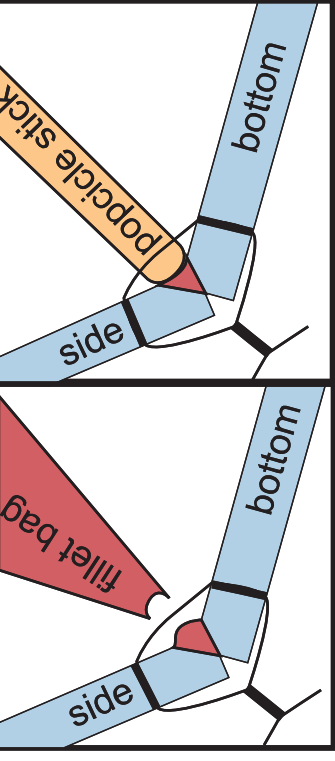
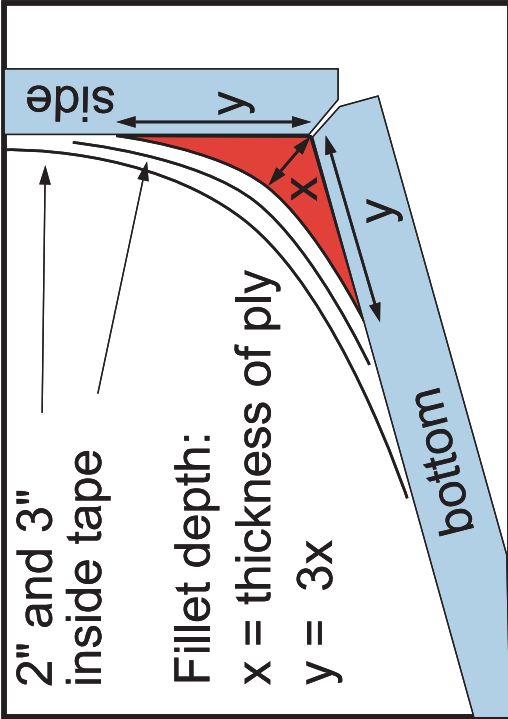
Daggerboard Box Housing



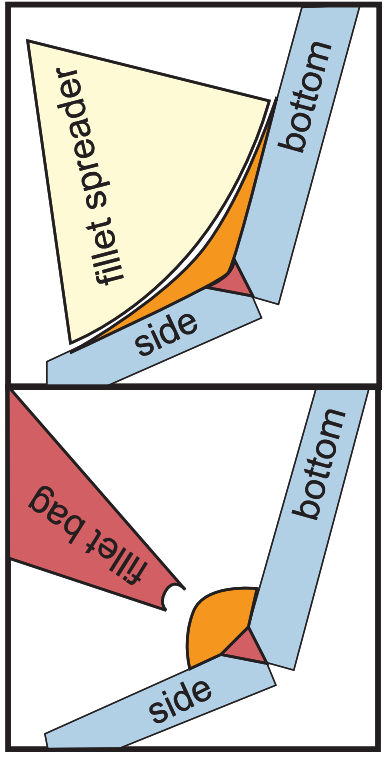




Wiring and bolting the panel sections together



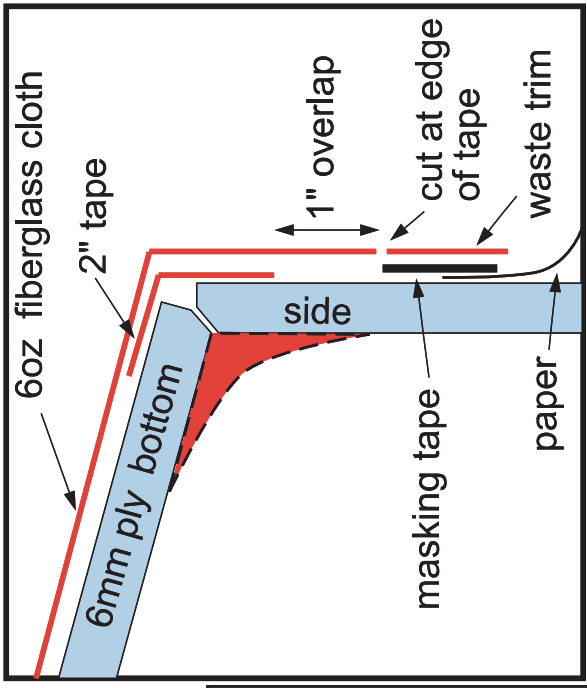
Jump Stitch



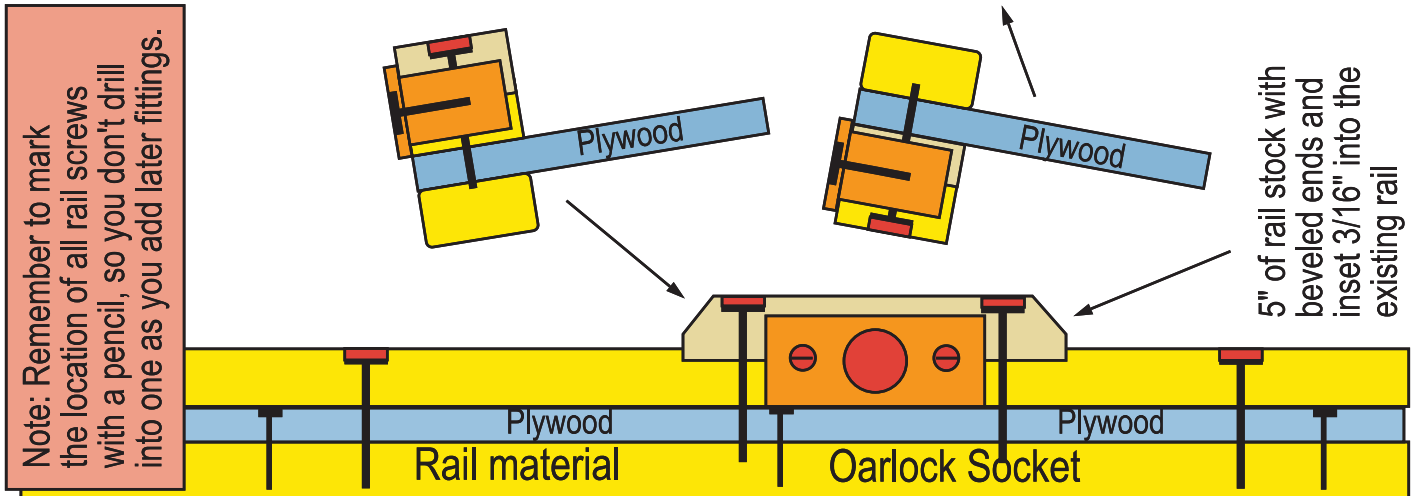
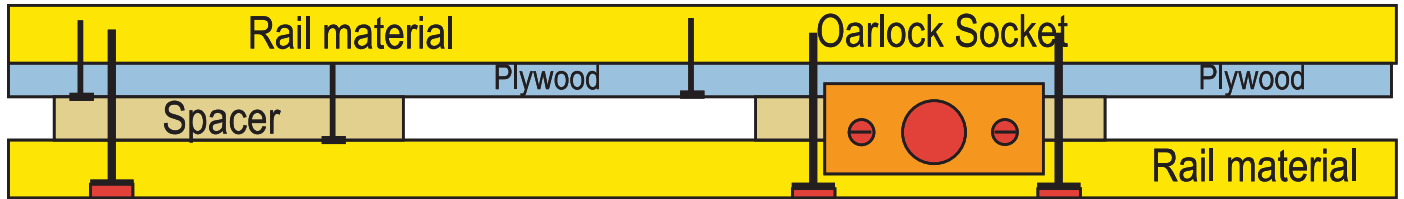
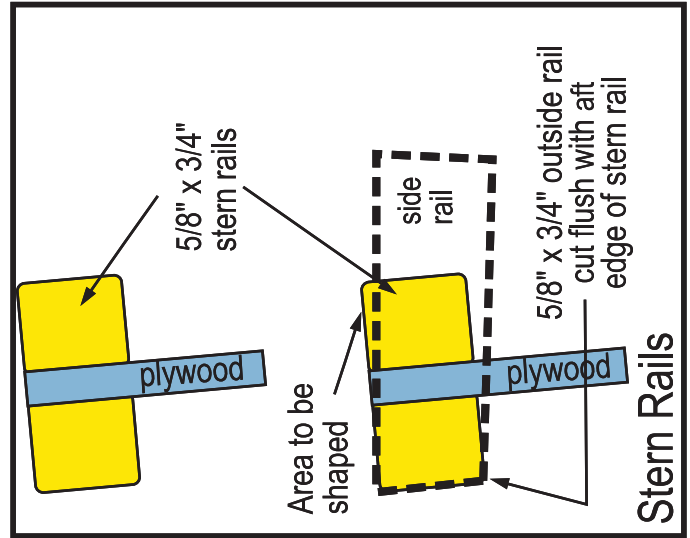
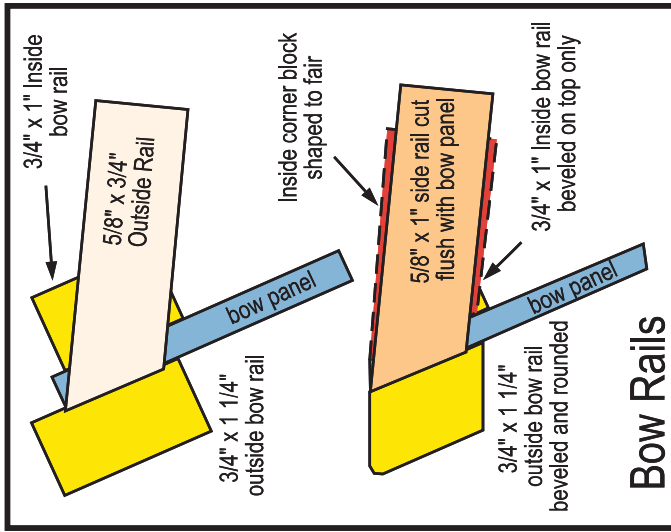
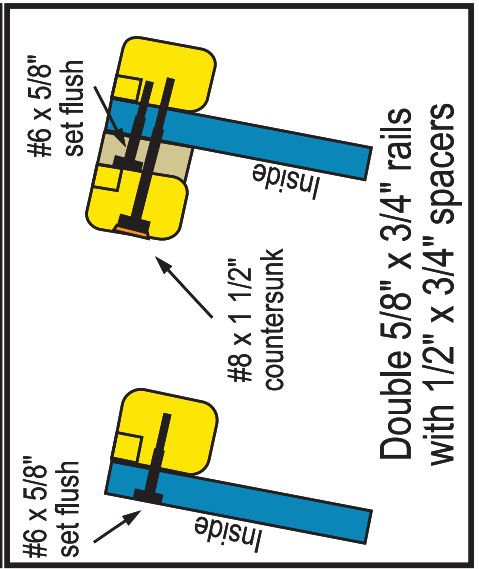
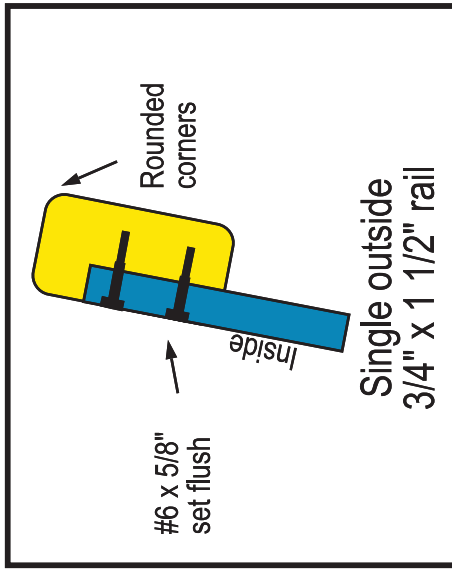
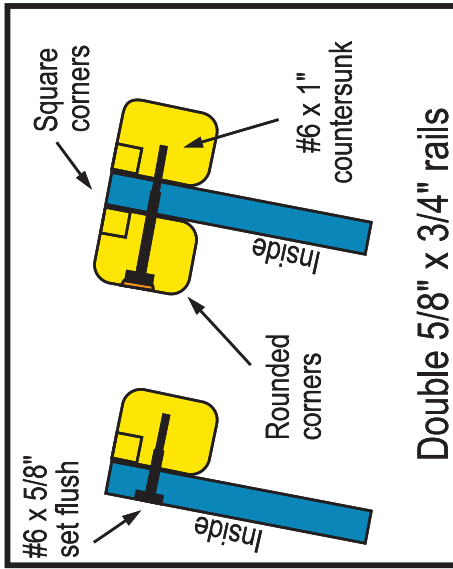
Applying and Spreading the Fillet

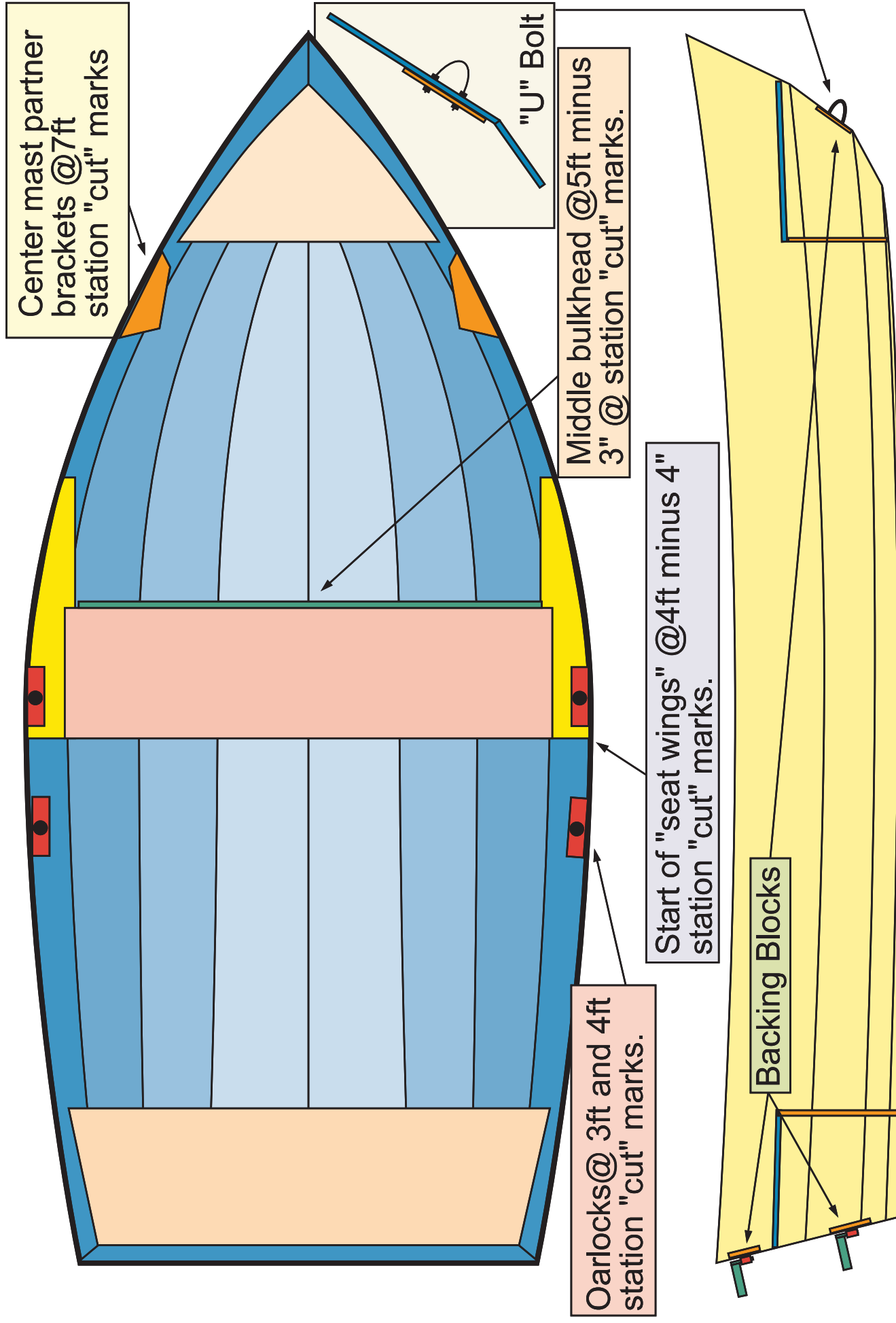
Cross section of taped seam

Bottom outside edge details

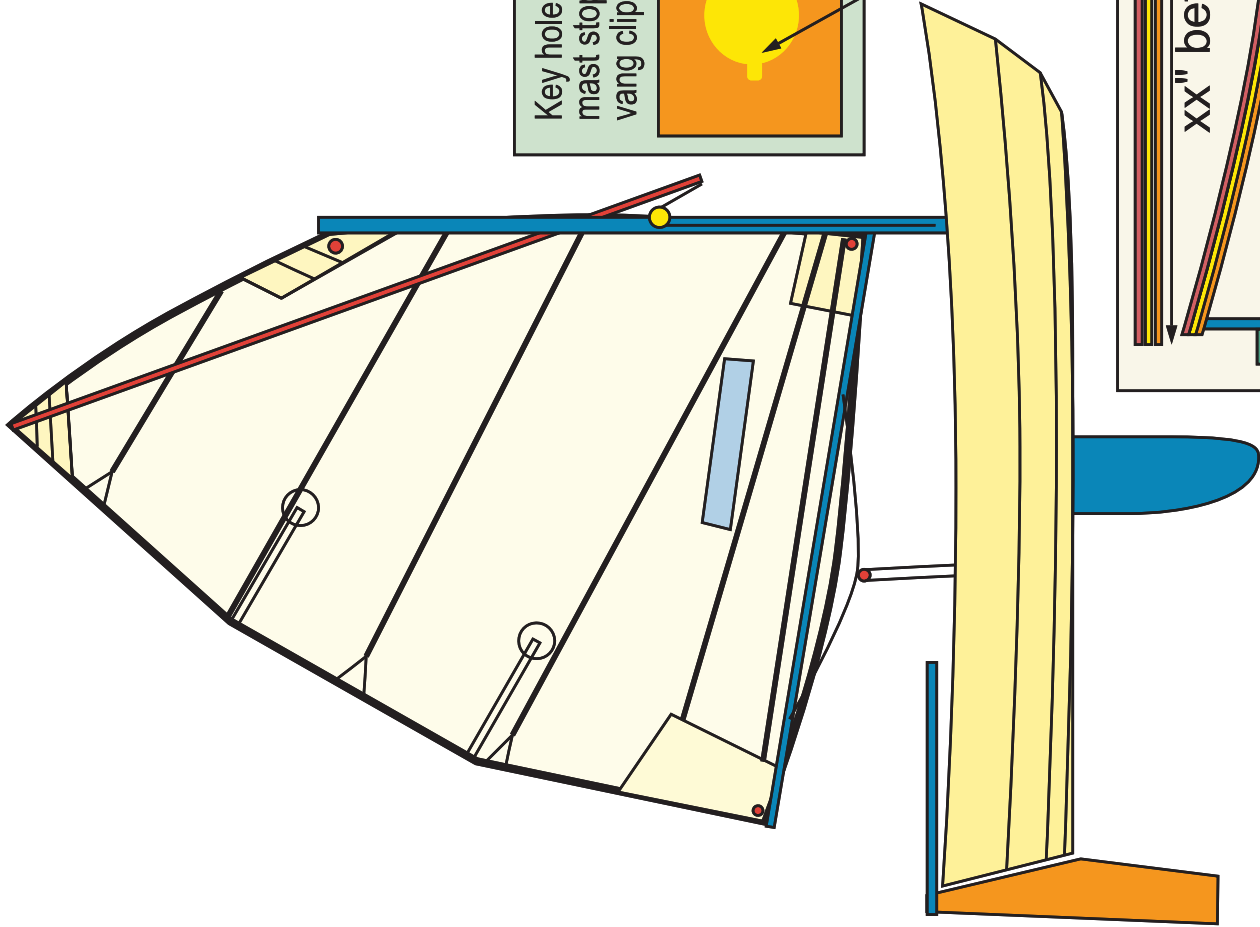


Read the instructions as you study these drawings. Each picture tells a story. Use the cardboard model you made to visualize the directions.





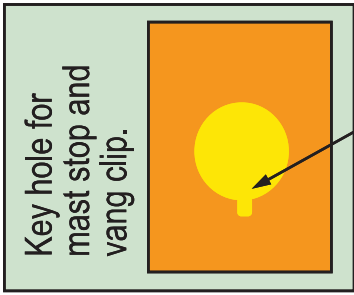
Cut, trim, and fit the bow and stern seats as complete and separate units. Use a base depth for the seats and trim the bulkheads and rails to fit. Adjust heights to match middle seat.



2" diameter mast.

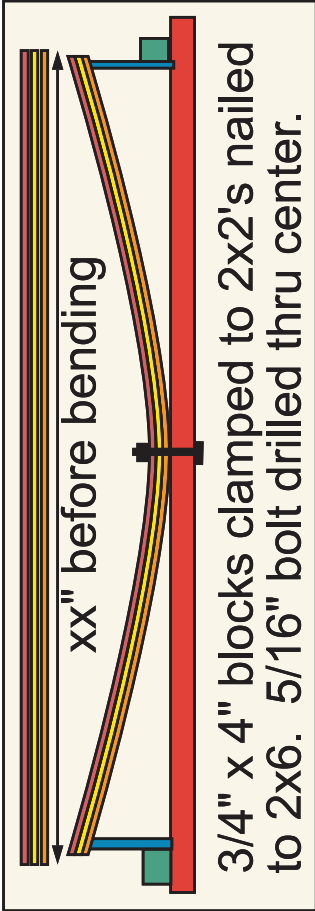
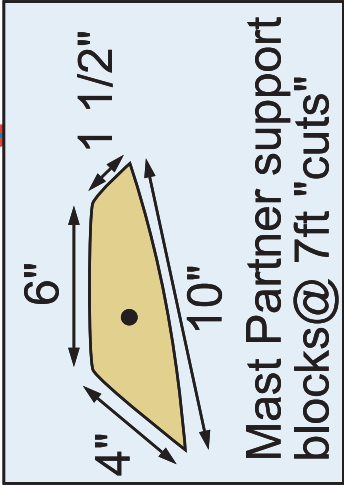
Three layers of 1/4" plywood laminated in an arc.

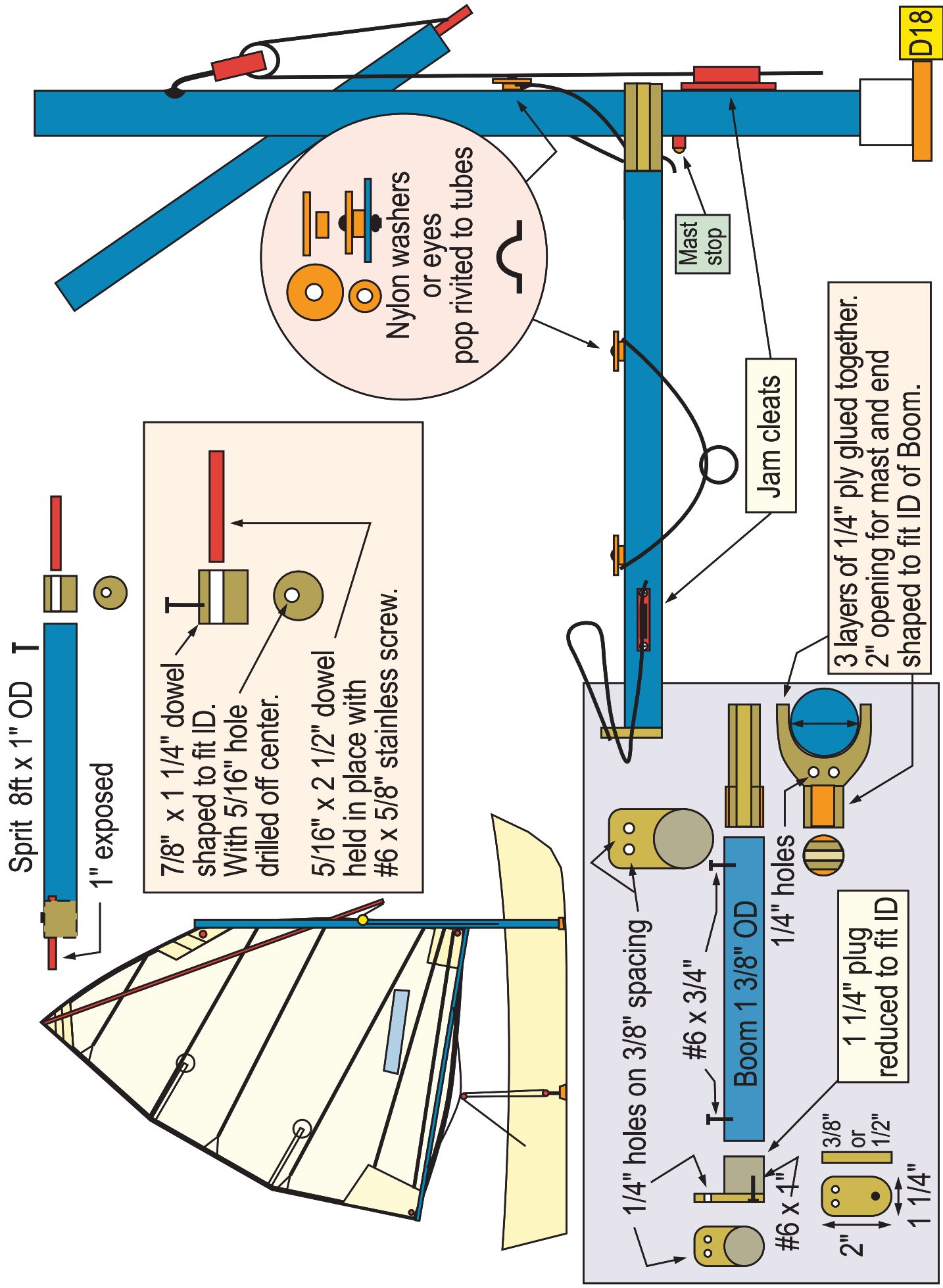
(3)#6 x 1" stainless screws



4" at ends, cut to fit inner rails.

5" at center



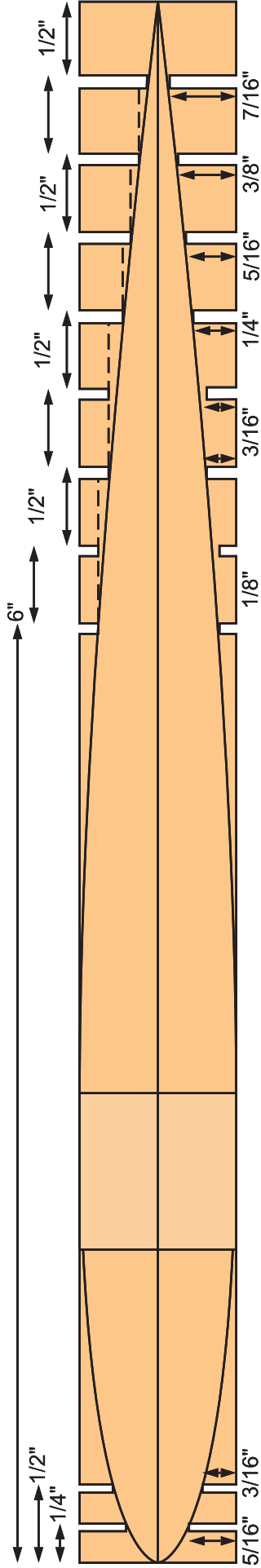


A diagram of a cable-stayed bridge. A blue cable is being installed from a green and blue cable-laying machine. The machine is positioned on a black rectangular area, which is part of a larger blue rectangular structure. A red dashed line indicates the intended path of the cable. A red vertical line is shown at the bottom of the diagram.

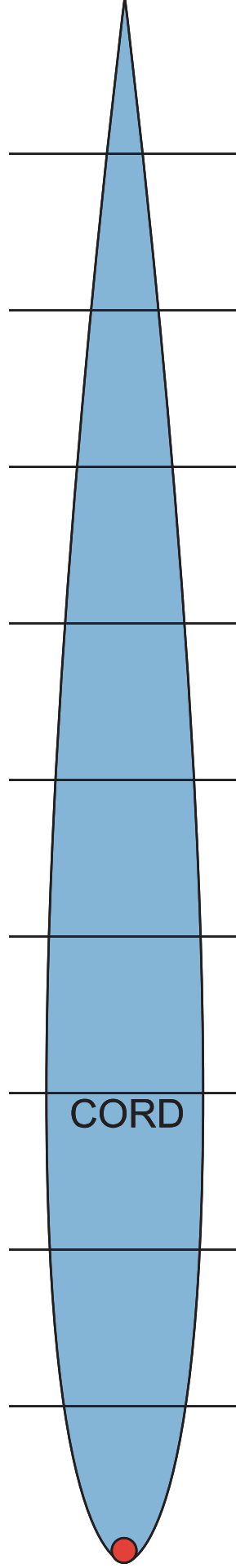


	5/4 cedar board cut into 1" x 1" x 38" blanks. Each blank is rotated end for end and 90 degrees from it's neighbor.	
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	5/4 cedar board cut into 1" x 1" x 38" blanks. Each blank is rotated end for end and 90 degrees from it's neighbor.	
--	---------------------------------------------------------------------------------------------------------------------------	--

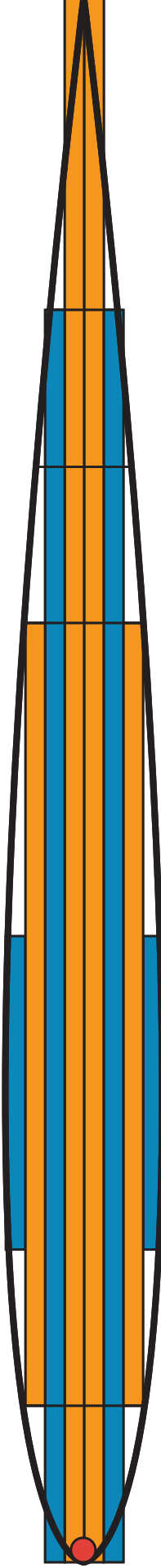


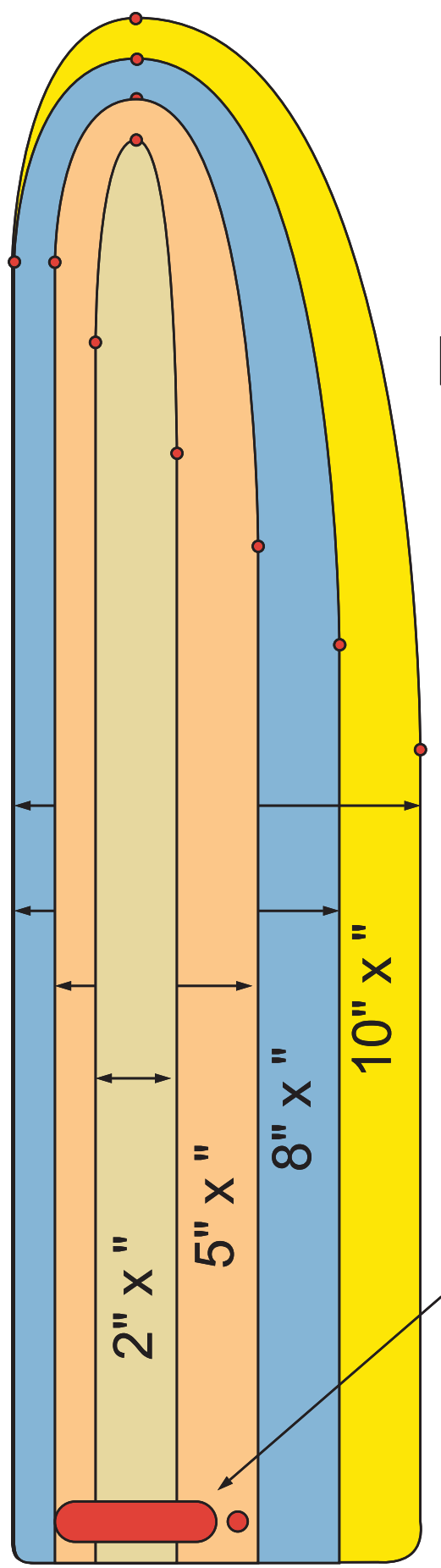
Daggerboard using solid wood construction



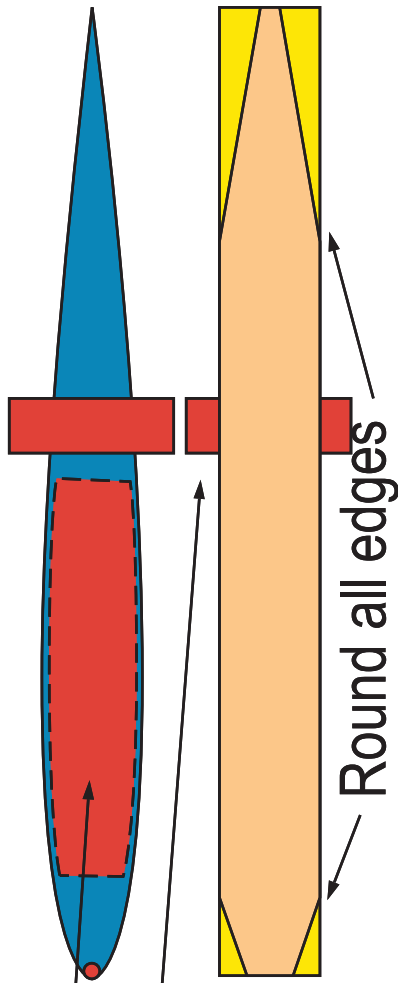
NACA 0010 -10 inch cord daggerboard

Daggerboard using layered construction stair steps filled with "fillet material"

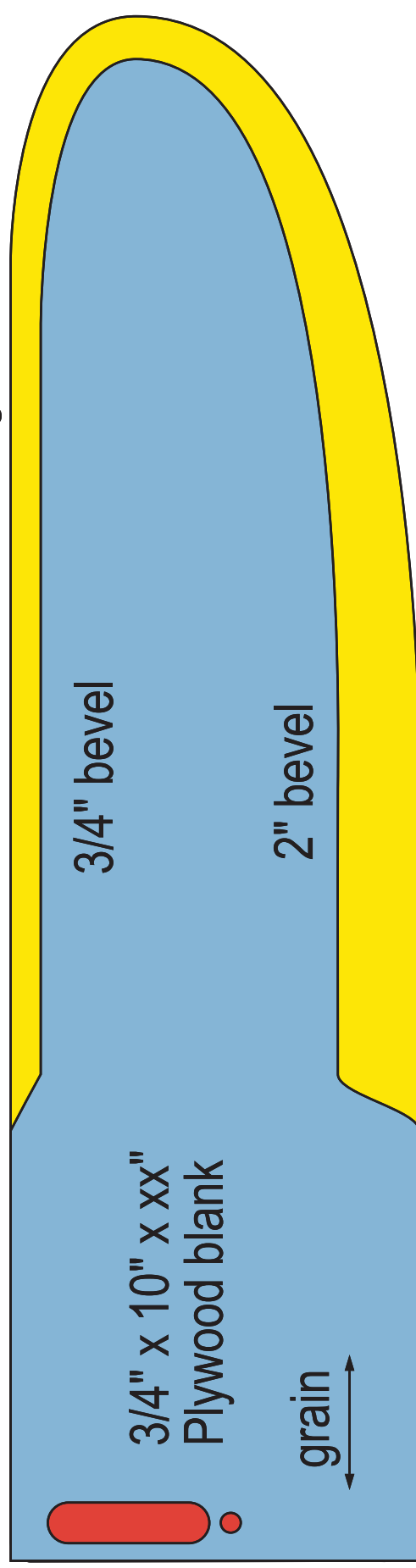




1" x 4" Handle opening
1/2" Dowel hole



Round all edges

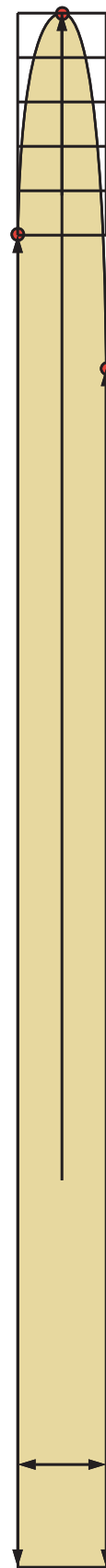
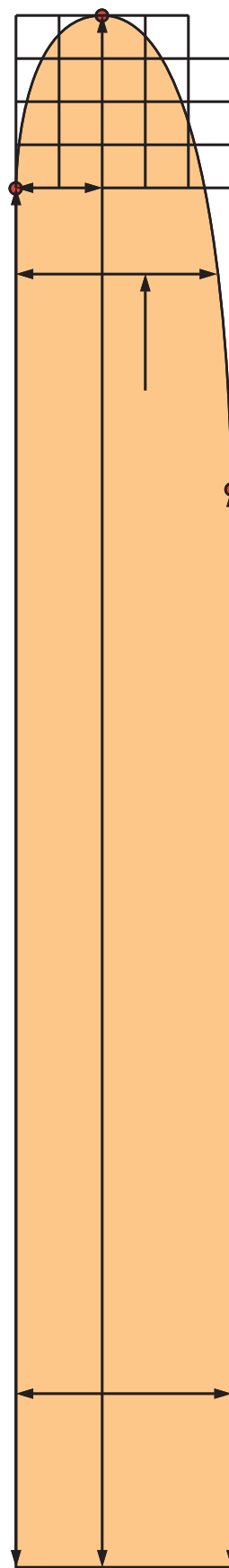
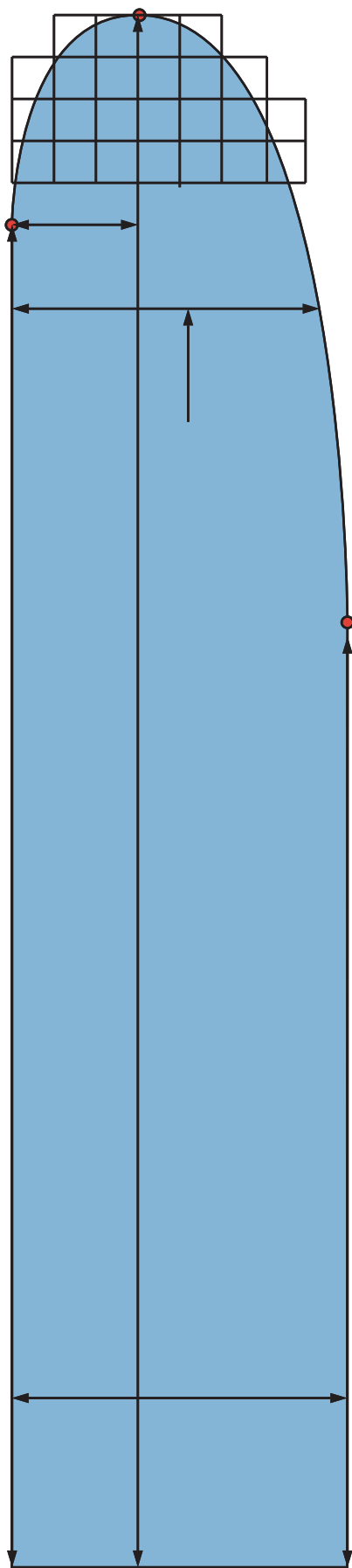
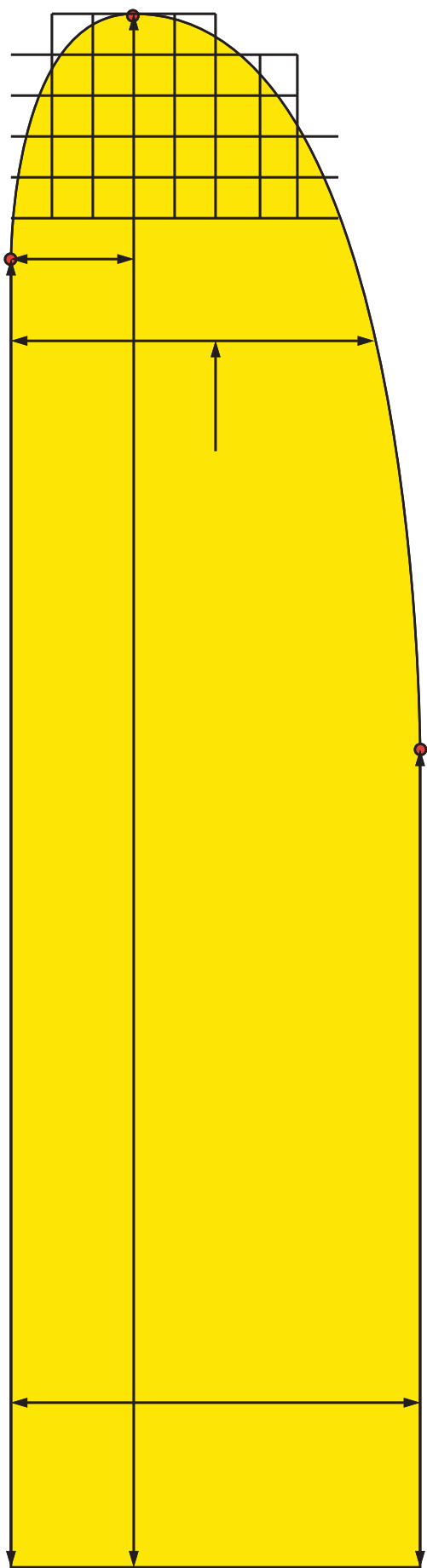


3/4" bevel

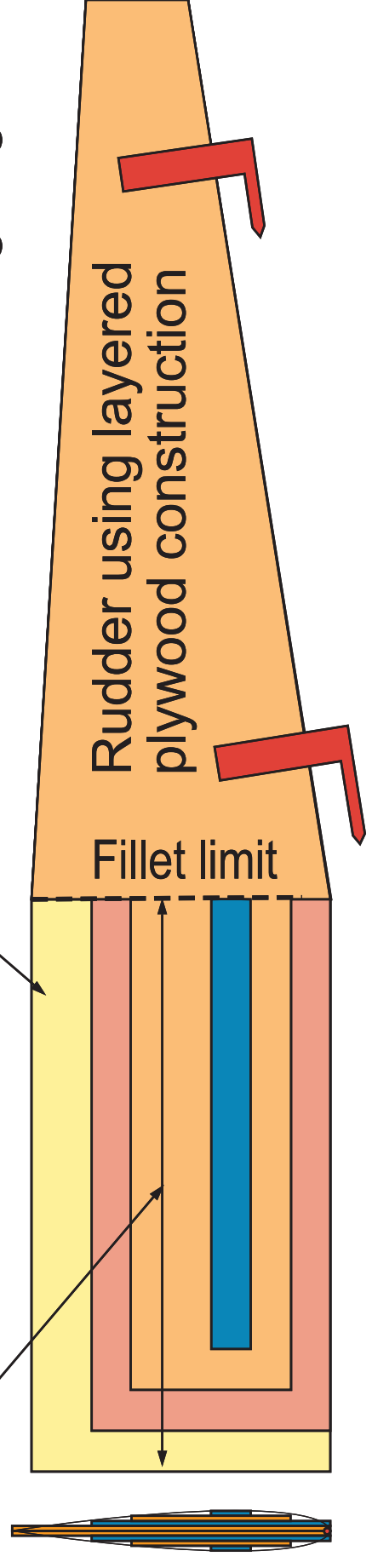
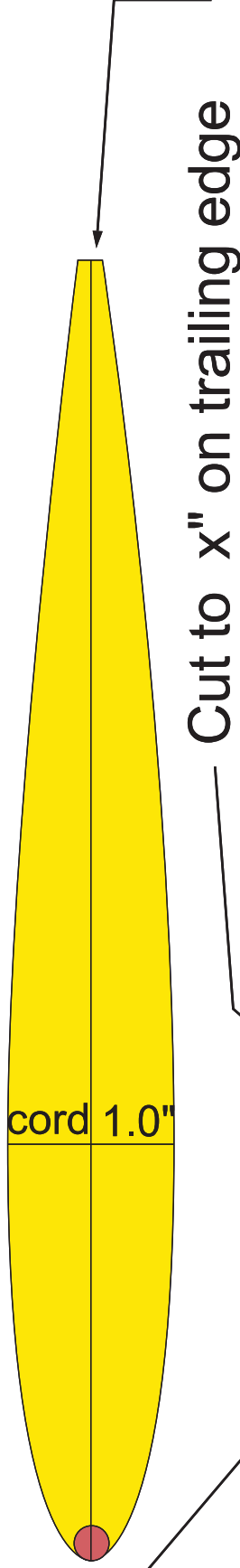
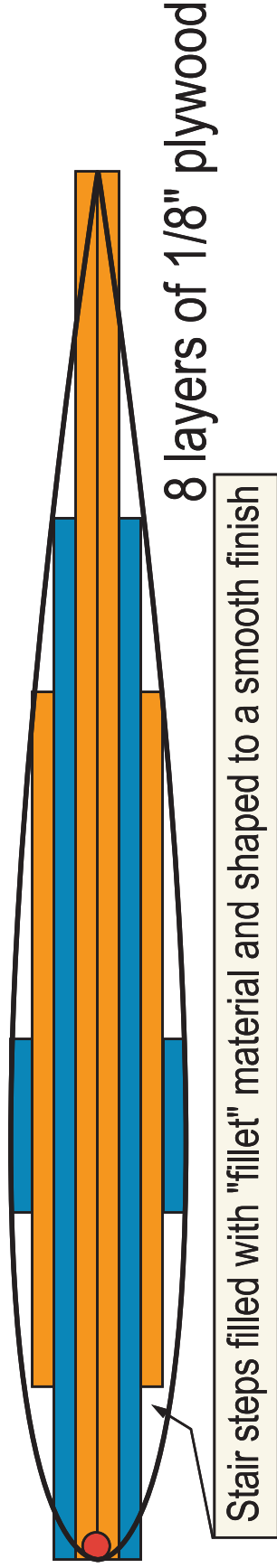
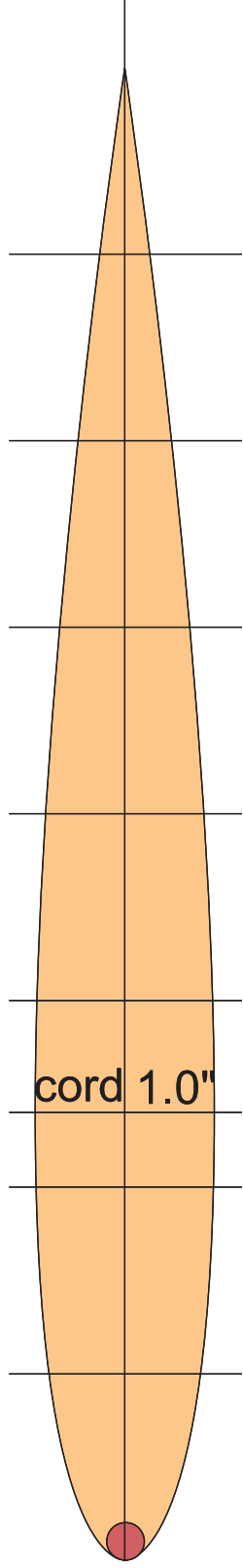
2" bevel

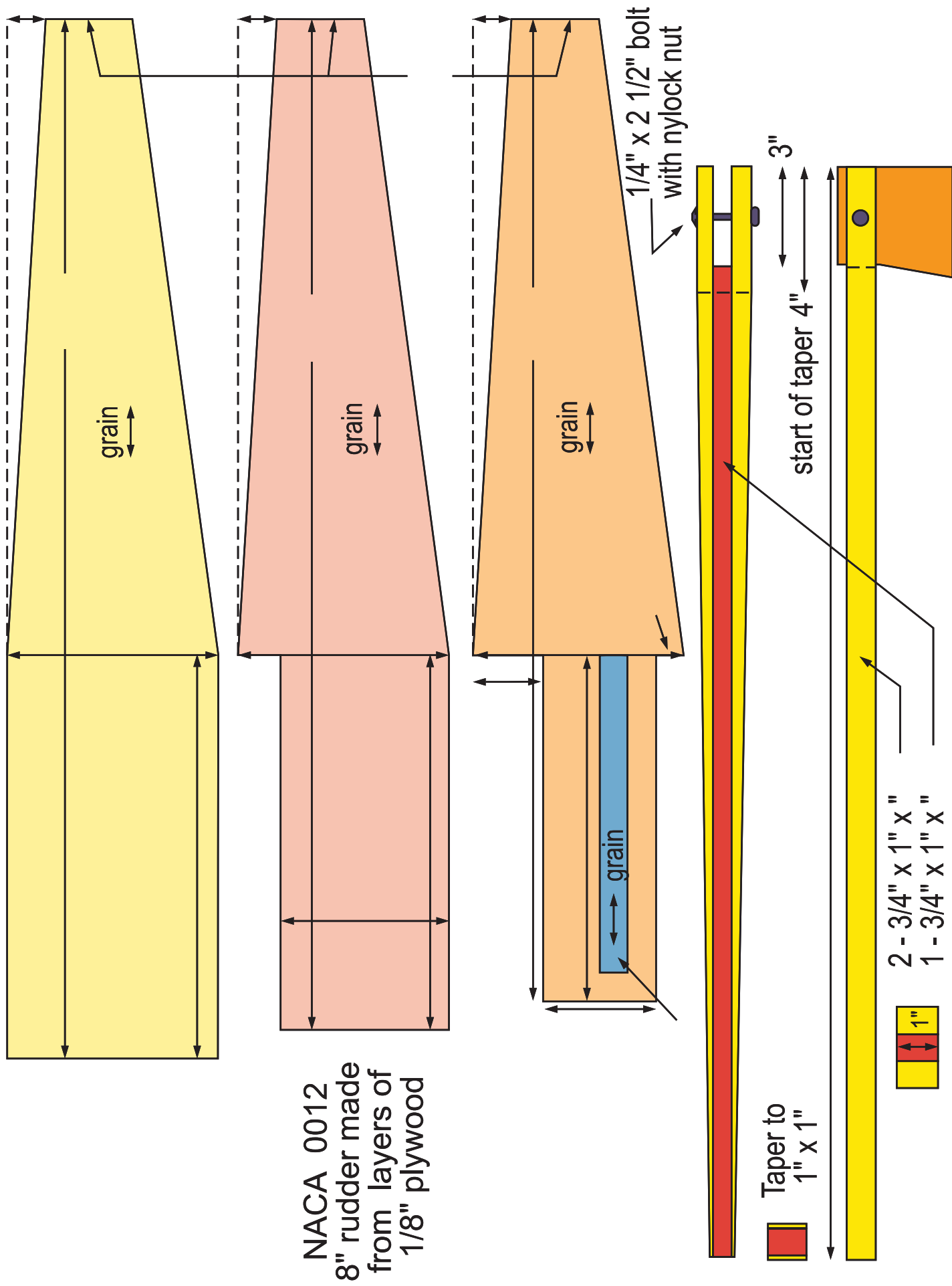
3/4" x 10" x xx"
Plywood blank

grain

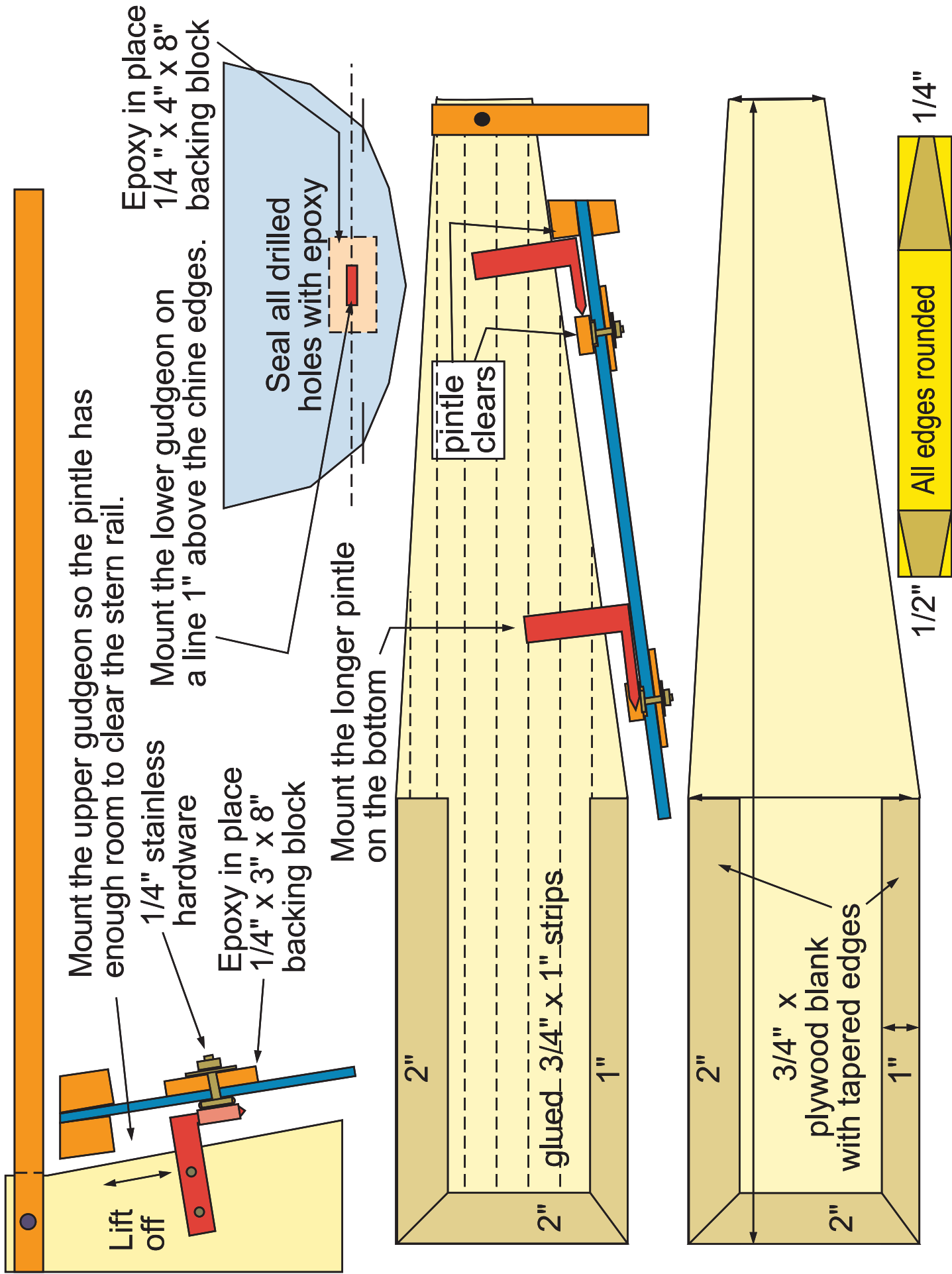


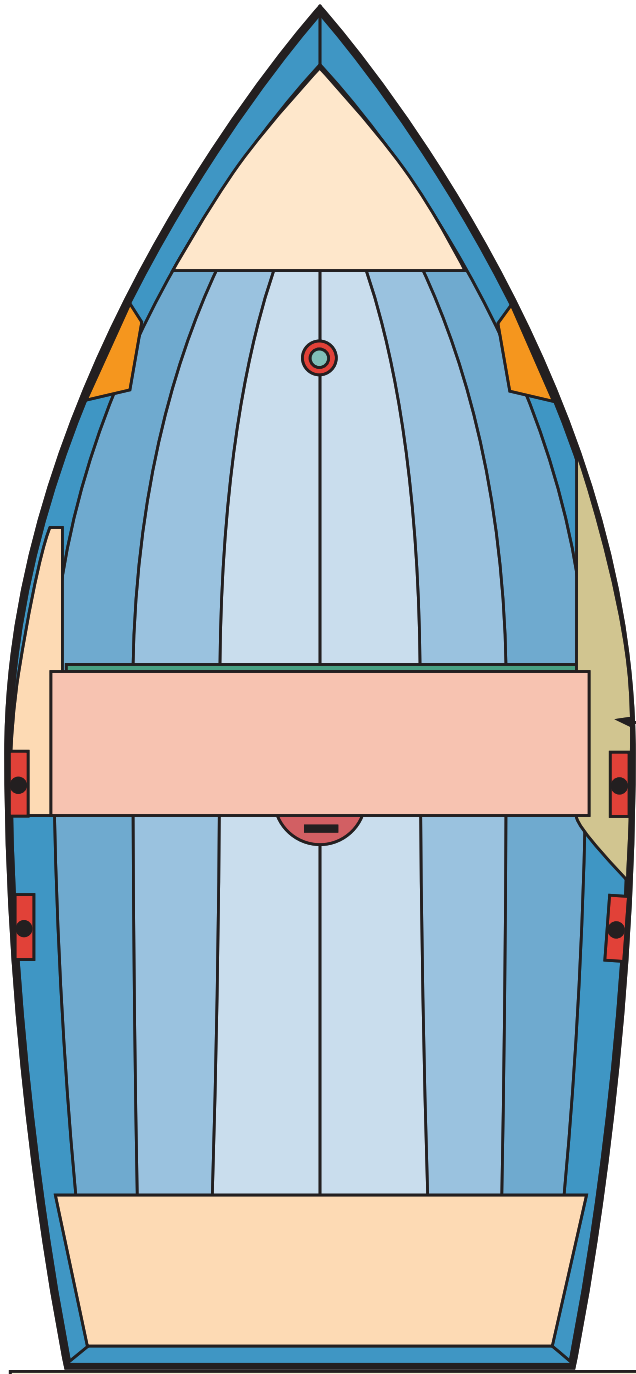
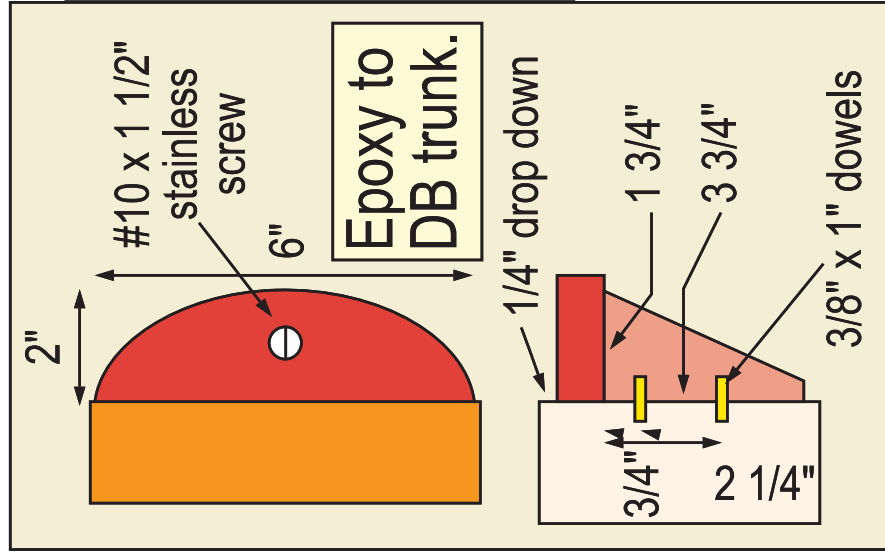
NACA 0012 - 8 Inch rudder



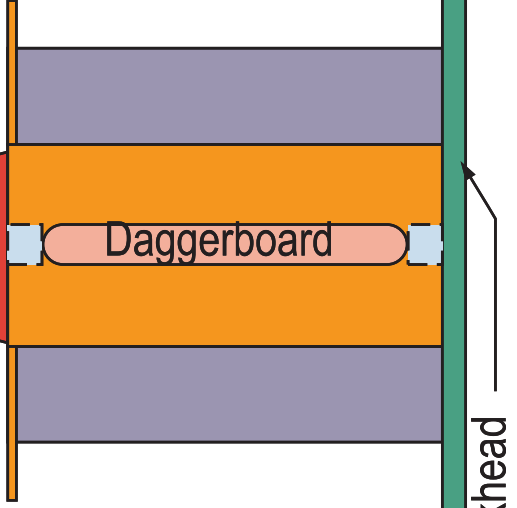
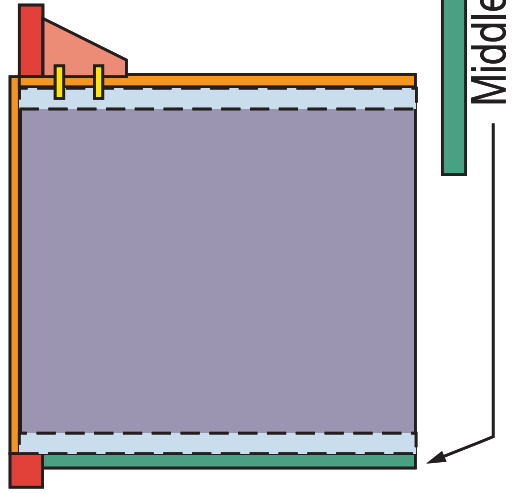
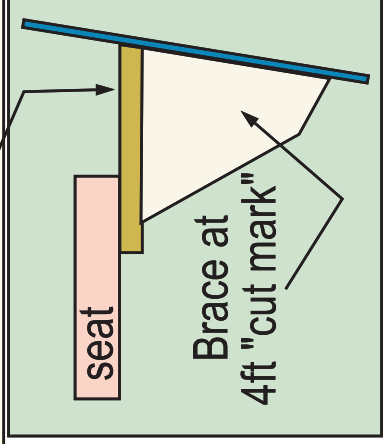
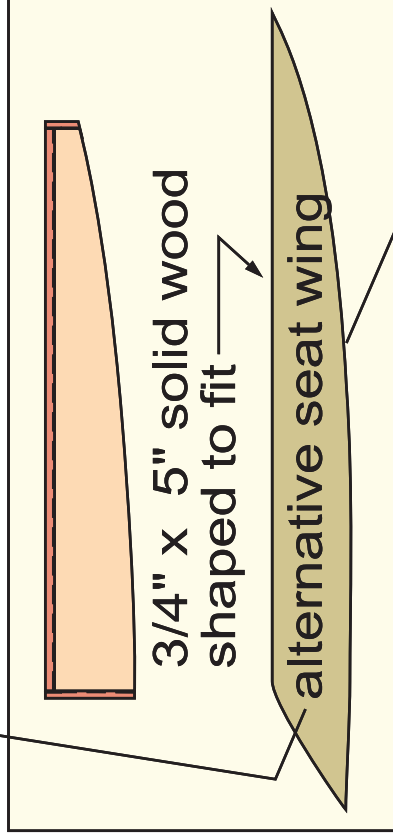


NACA 0012
 8" rudder made
 from layers of
 1/8" plywood





Pad eye for swiveling snap shackle. Held in place by two #12 x 3/4" stainless screws.



Middle Bulkhead