

With a slight push, the ship should plane along the water for quite a distance before breaking off. And when it does, it should have more of a zoom than it has as a landplane—the wings being closer to the water, and having a greater cushioning effect. The high line of thrust has the effect of moving the center of gravity forward when the engine is running and the glide is consequently a very flat one, the ship acting a bit tail heavy after

Try this unique "Duck" Gas Buggy

"Wanna buy a duck?" is what our pal Joe Penner often chirps. Well, kids, maybe his is for sale—but ours isn't! For "wanna BUILD a duck?" is our chirp. And if you do, just trot out your balsa here and fabricate this top-notch water-loving amphib. Yes, she's a smart gas job that's at home both on land and Aquid. And by the way, don't forget that last item in our Bill of Materials.

WHO SAYS that gas models are all alike? Well, here's one that's pleasantly different. In fact, that's why I designed her—I was fed up with the more conventional ships and wanted to build something that wouldn't look like the usual run but still would have their flying ability. That, boys, is the story of the Duck. And I hope you get as big a kick out of building her as I did.

The Duck not only has the lines of a real ship but she turns in swell flights, too. Watching her plane across the water for take-off is a real thrill—one that you'll not get with the ordinary landplane. And seeing her come in for water landings really makes a modeler's heart jump with joy at her beauty.

MAKING THE HULL
DRAW a full size side view of the body, scaling the dimensions from the plan. Now, cut the formers and bulkheads from 3/8" sheet, mark their proper places on the sides of the 1/16" sheet hull, and assemble. A strip of balsa 3/4" wide is used for the rear former. The step vents are made by cutting the space between the step bulkheads and cutting holes in the upper part (on the side) of the box that is formed, as well as in the bottom of the hull. These vents enable the ship to get off the water more easily by breaking the suction of the water behind the steps.

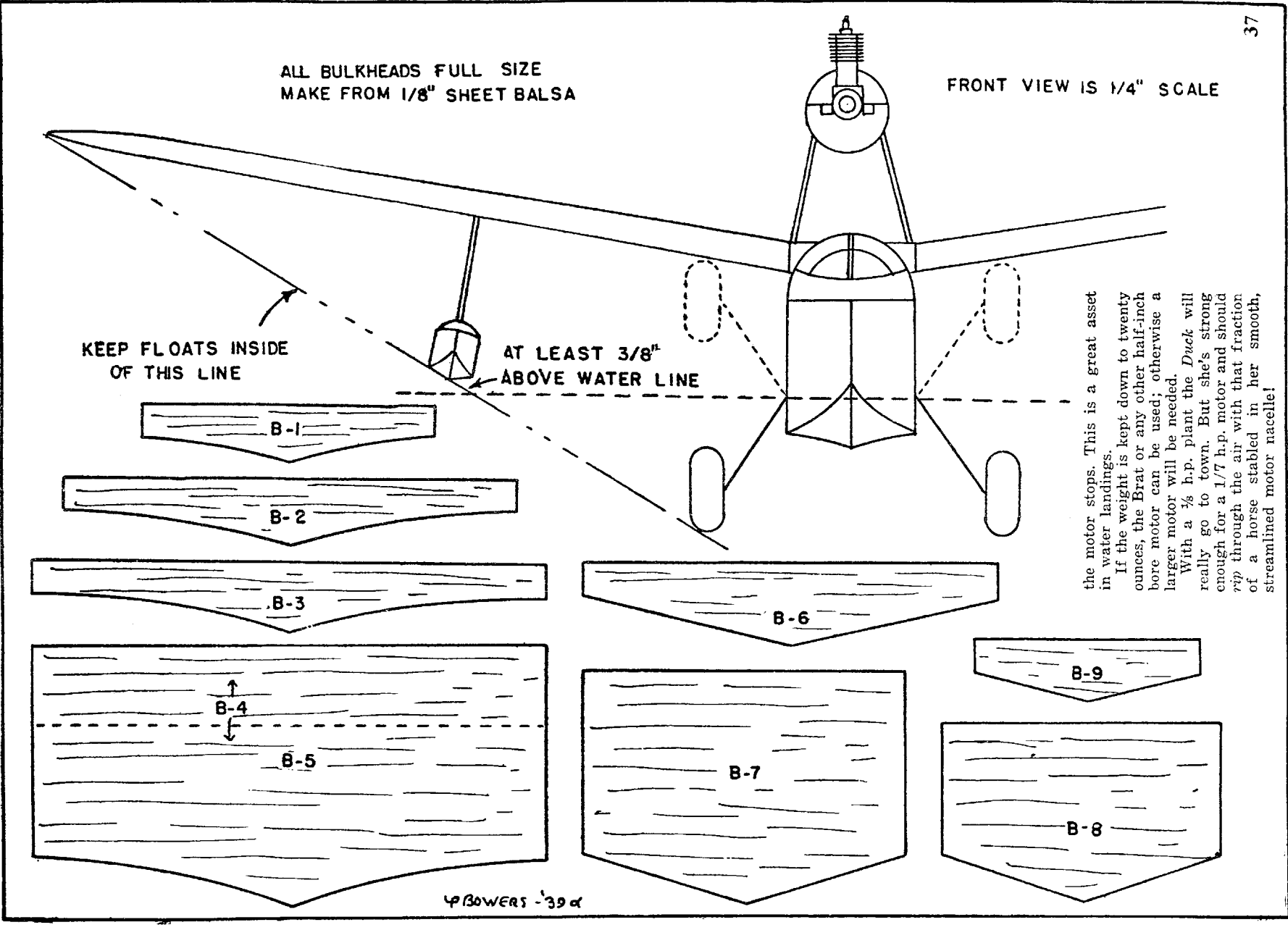
ENGINE NACELLE AND MOTOR MOUNT
THE MODEL is powered with a Brat motor and the mount is just a regular Brat mount, planed to half-thickness. Different motors and mounts may be used, however they will require different mounts from the one shown. But it'll be an easy job to work them out yourself.

COVERING THE MODEL
GIVE the ship a coat of dope inside and out—dope the motor and tail framework, too. This will prevent them from soaking up water after a dunking. Sand the wood lightly and dope the silk on, covering the hull as far as possible. Cover each panel of the wing and tail with one piece of silk, dipping the spars, laying the silk on, and then pulling it tight from the edges. When dry, run over each rib with dope.

WING PLATES
FLOATS are made in the same way as the hull. Cut the size sides to shape and cement the formers in place. After this is done, join the two sides together at the ends. But before covering the tops, cement one-inch lengths of 3/32" dia. aluminum tubing to the rear ends of the formers on their centers in such a way that the top of the tubes are flush with the top of the floats. These tubes are matched by tubes in the wings, cemented into the junctions of the front and center spars with rib No. 5.

At first glance, you might think that Pete Penner's design of our "Duck" is a simple one. But when you see the finished model, you'll see that it's a real beauty. The hull is made of 1/16" sheet balsa, and the wings are made of 1/16" sheet balsa with 1/16" sheet balsa ribs. The motor nacelle is made of 1/16" sheet brass, and the motor mount is made of 1/16" sheet brass. The hull is painted with a light blue color, and the wings are painted with a light blue color. The motor nacelle is painted with a light blue color, and the motor mount is painted with a light blue color.

TRY THIS UNIQUE "DUCK" GAS BUGGY—Plate 2



ALL BULKHEADS FULL SIZE
MAKE FROM 1/8" SHEET BALS

FRONT VIEW IS 1/4" SCALE

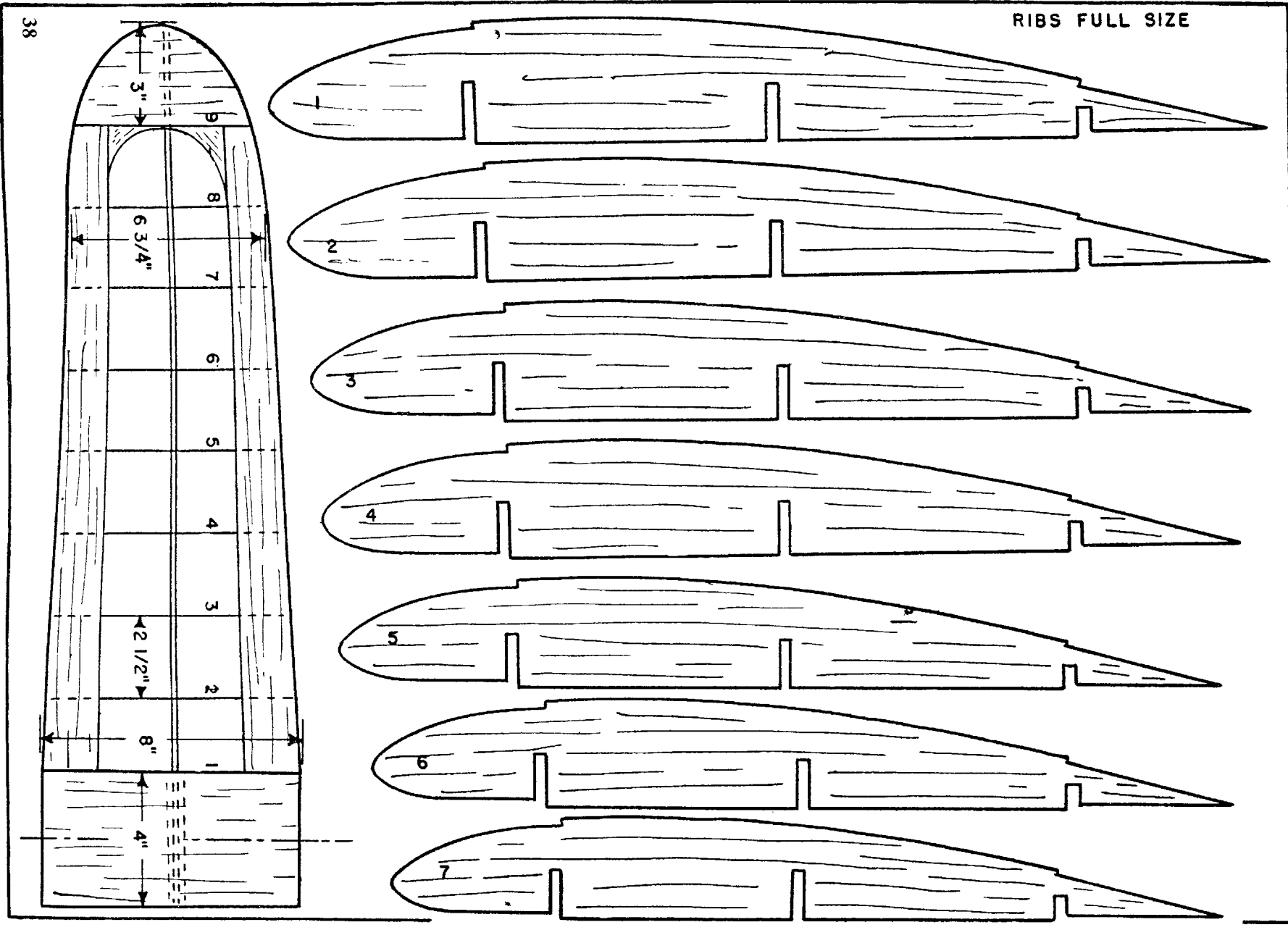
KEEP FLOATS INSIDE OF THIS LINE

AT LEAST 3/8" ABOVE WATER LINE

This is a great asset in water landings. If the weight is kept down to twenty ounces, the Brat or any other half-inch horse motor, can be used; otherwise a larger motor will be needed. The Duck will really go to town. But she's strong enough for a 1/7 h.p. motor and should rip through the air with that fraction of a horse stabled in her smooth, streamlined motor nacelle!

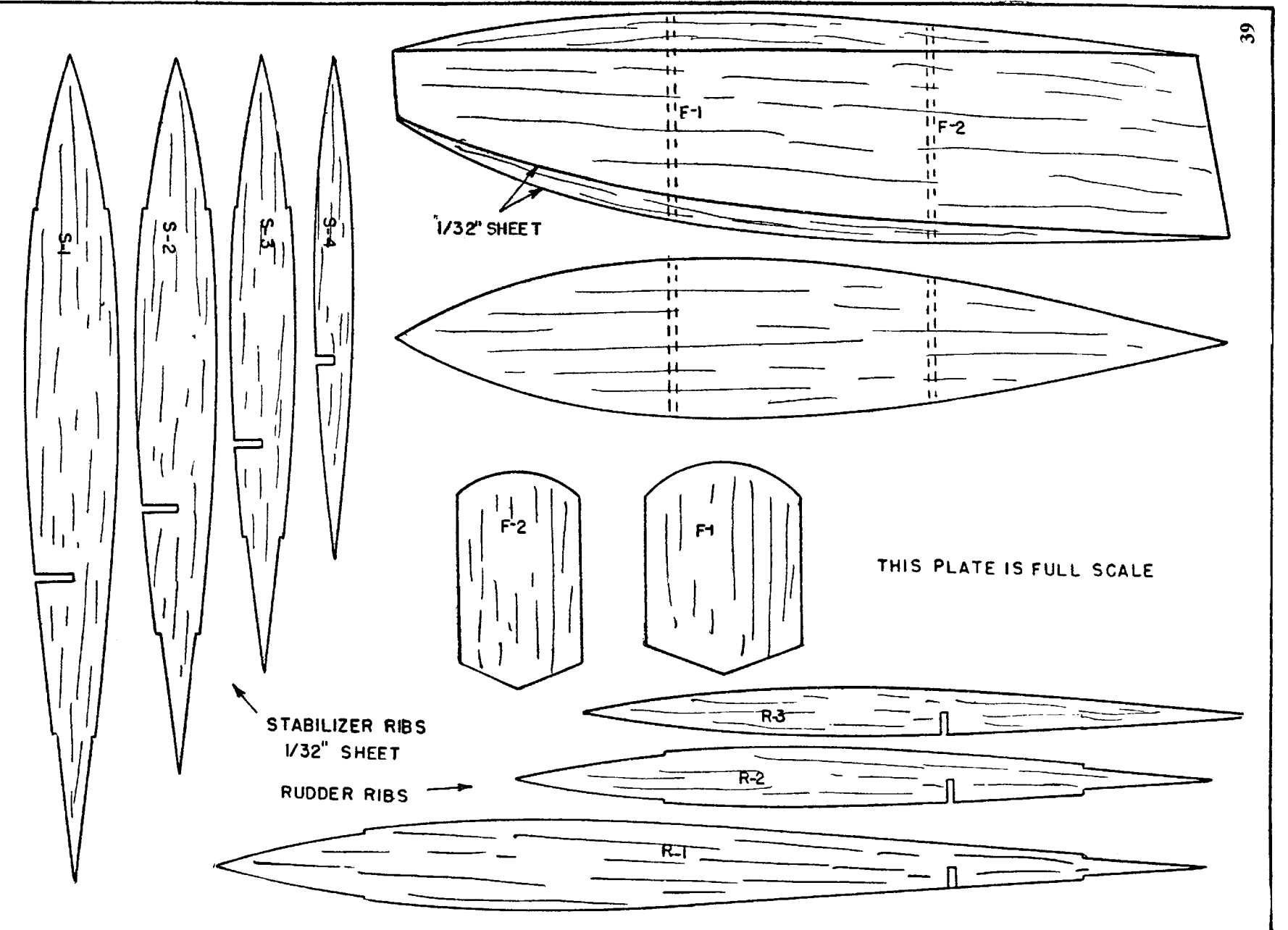
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RIBS FULL SIZE

TRY THIS UNIQUE "DUCK" GAS BUGGY—Plate 4



1/32" SHEET

THIS PLATE IS FULL SCALE

STABILIZER RIBS 1/32" SHEET

RUDDER RIBS

TRY THIS UNIQUE "DUCK" GAS BUGGY—Plate 5

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