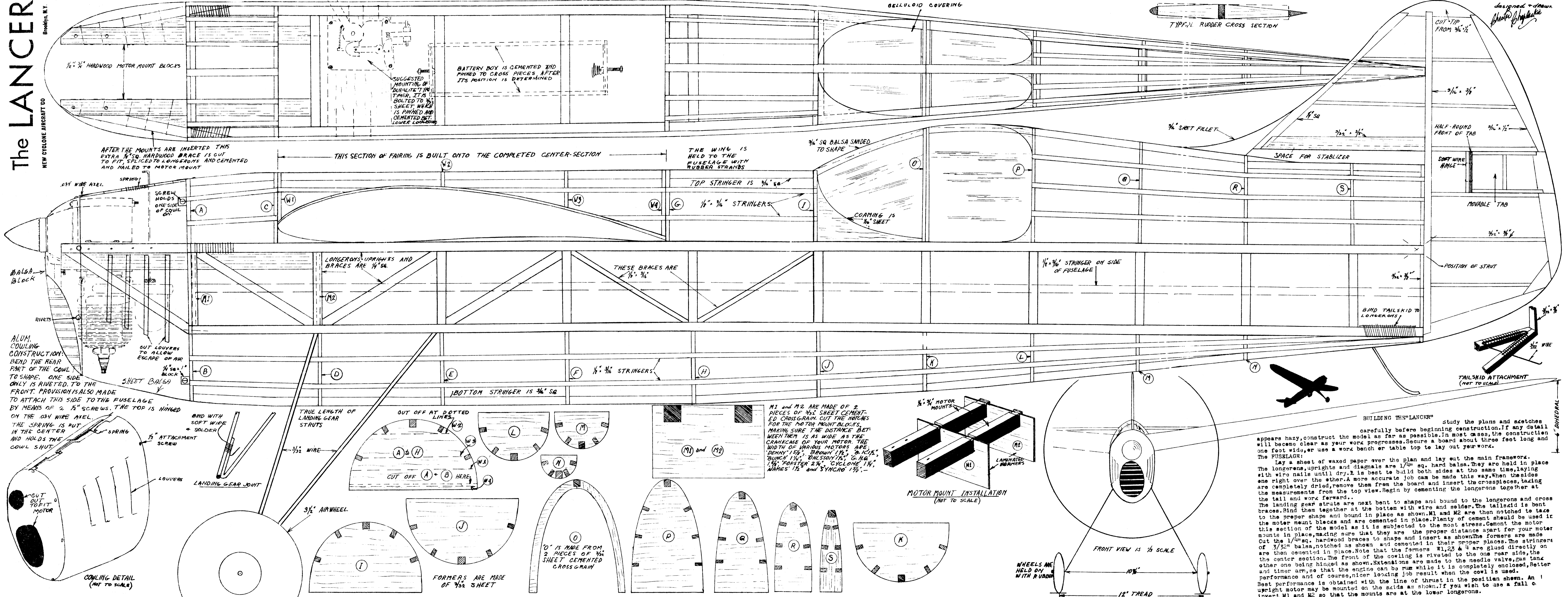


# The LANCER

NEW CYCLONE AIRCRAFT CO  
Brooklyn, N. Y.



Designed & drawn  
Arthur J. [Signature]



AFTER THE MOUNTS ARE INSERTED THIS EXTRA 1/4\"/>

THIS SECTION OF FAIRING IS BUILT ONTO THE COMPLETED CENTER-SECTION

THE WING IS HELD TO THE FUSELAGE WITH RUBBER STRANDS

3/16\"/>

TOP STRINGER IS 3/16\"/>

1/8\"/>

COAMING IS 3/16\"/>

LONGERONS, UPRIGHTS AND BRACES ARE 1/4\"/>

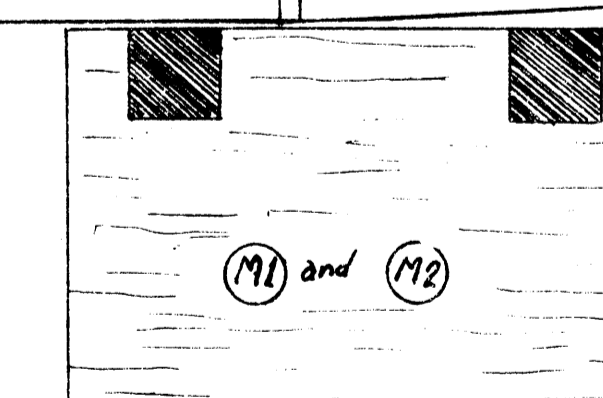
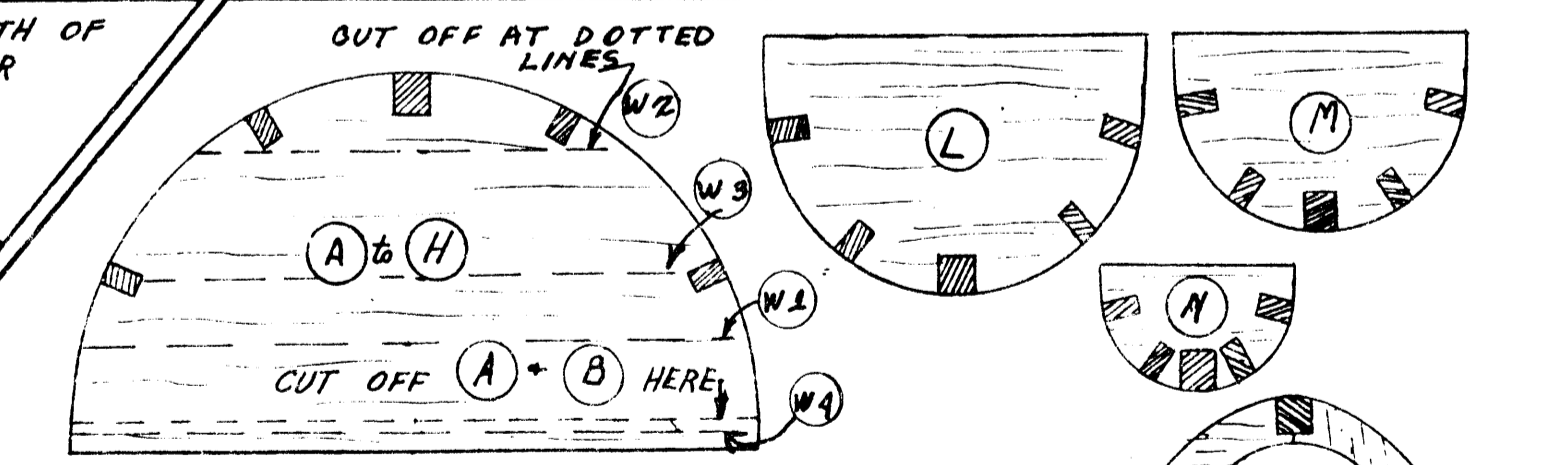
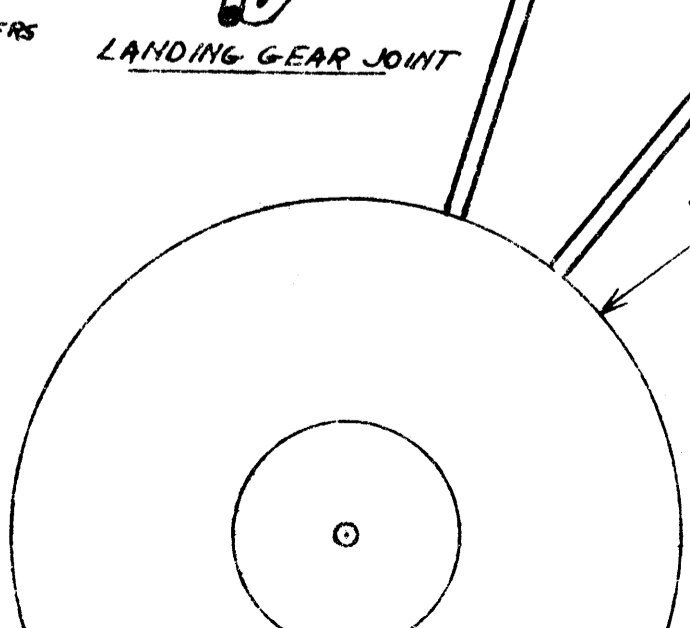
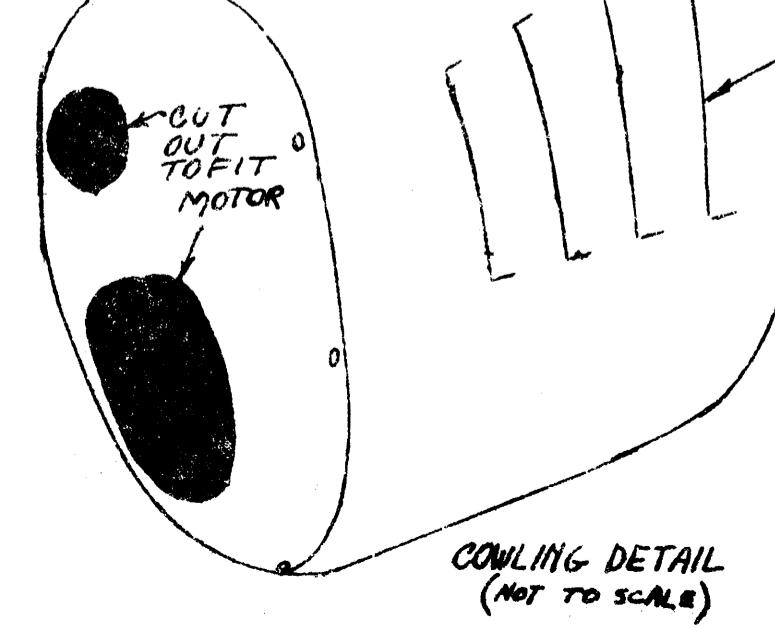
THESE BRACES ARE 1/4\"/>

1/8\"/>

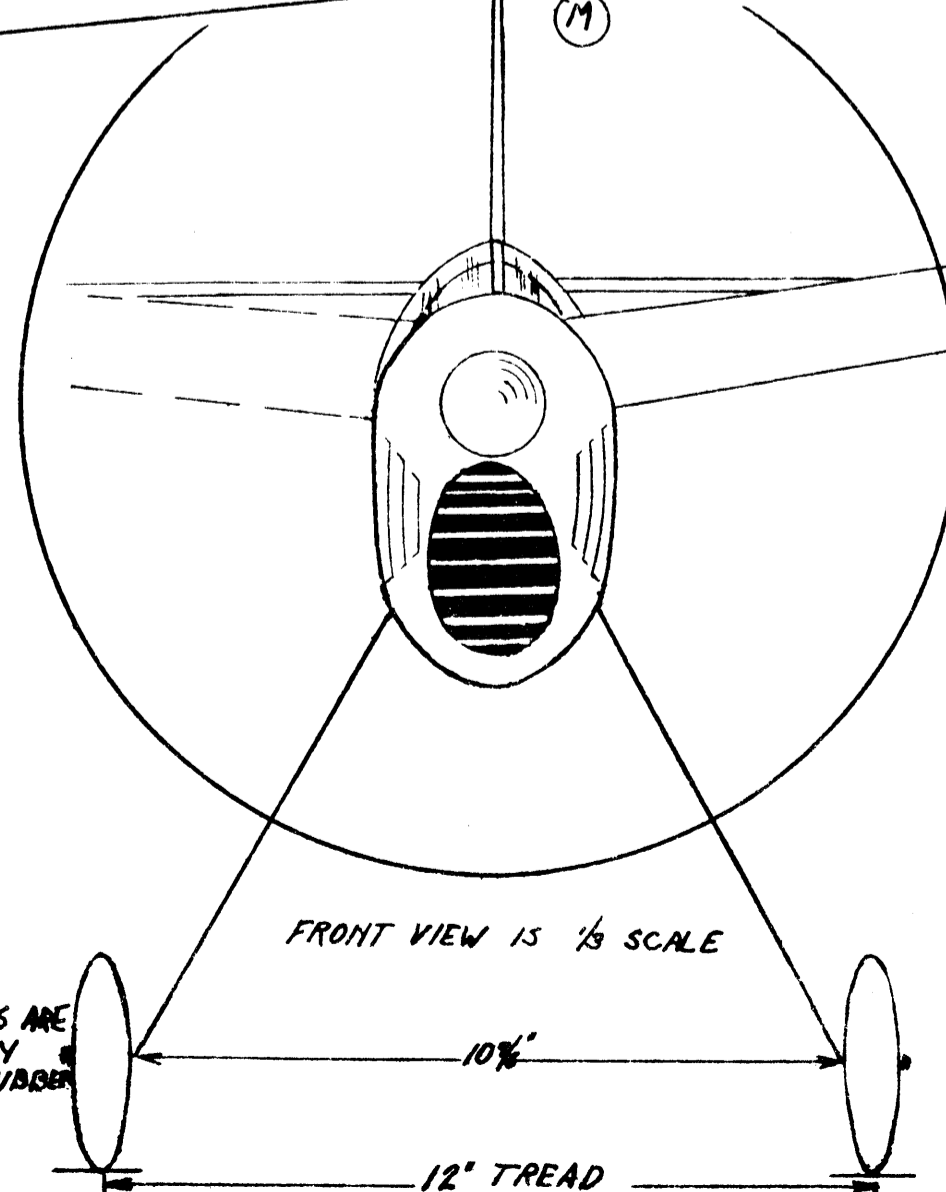
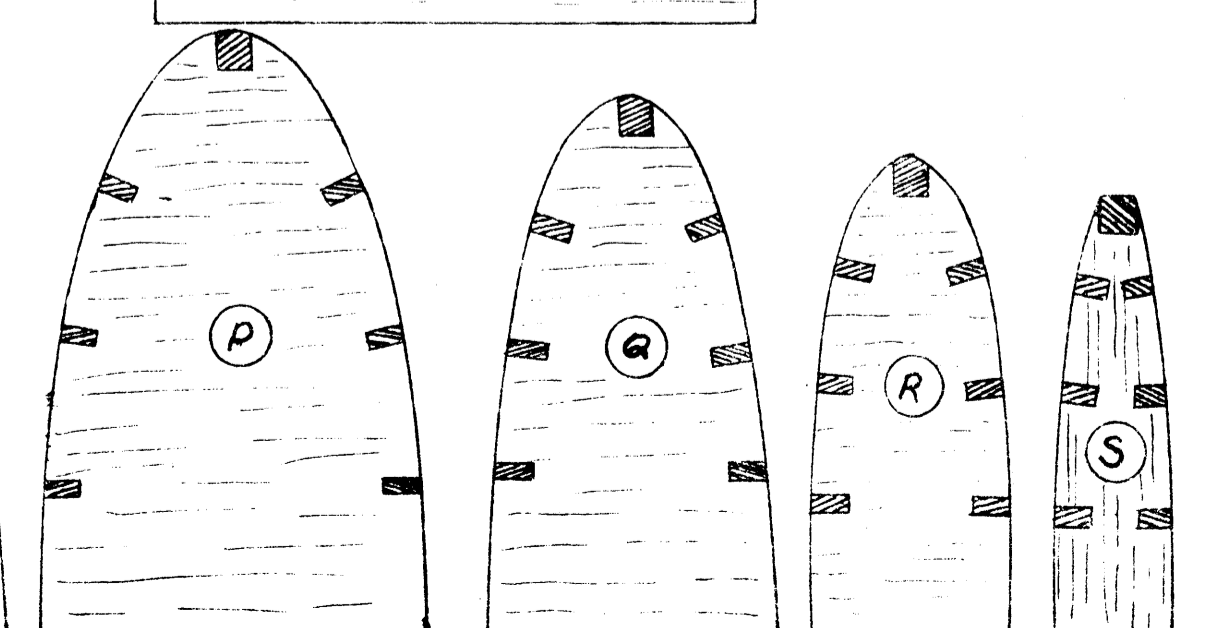
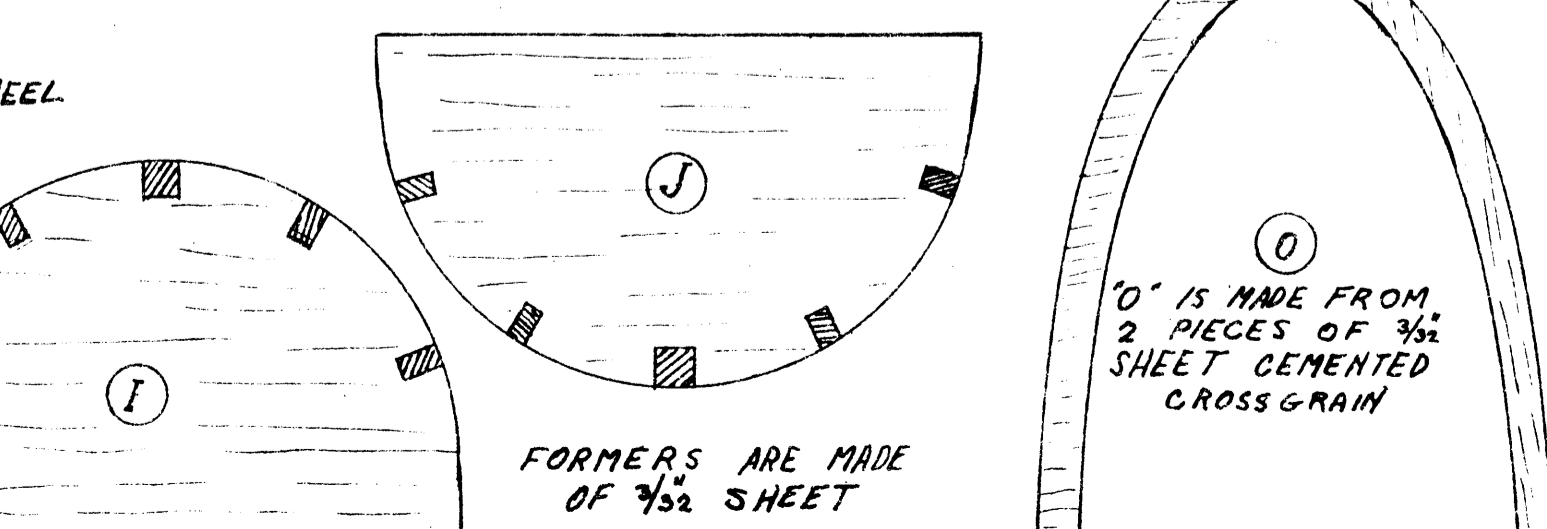
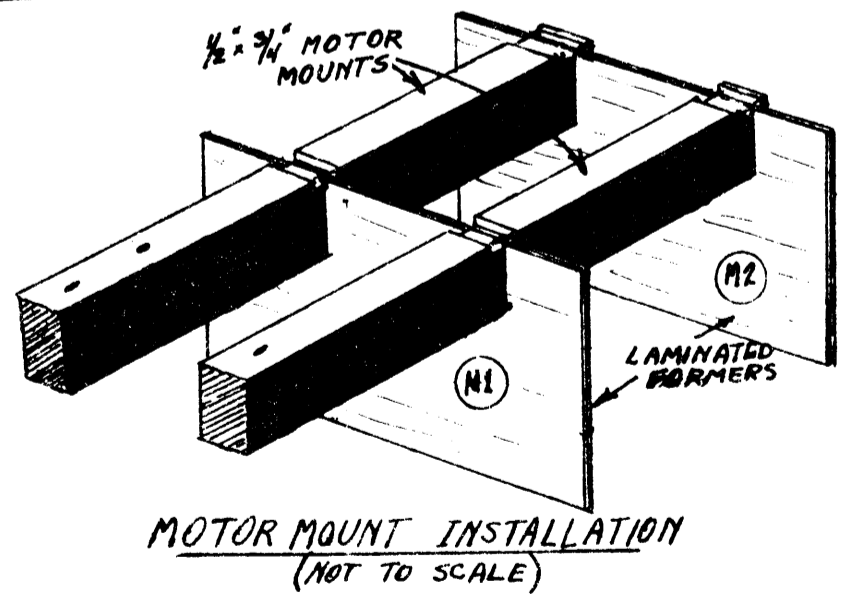
BIND TAILSKID TO LONGERONS

TAILSKID ATTACHMENT (NOT TO SCALE)

ALUM. COWLING CONSTRUCTION: BEND THE REAR PART OF THE COWL TO SHAPE. ONE SIDE ONLY IS RIVETED TO THE FRONT. PROVISION IS ALSO MADE TO ATTACH THIS SIDE TO THE FUSELAGE BY MEANS OF 2 1/8\"/>



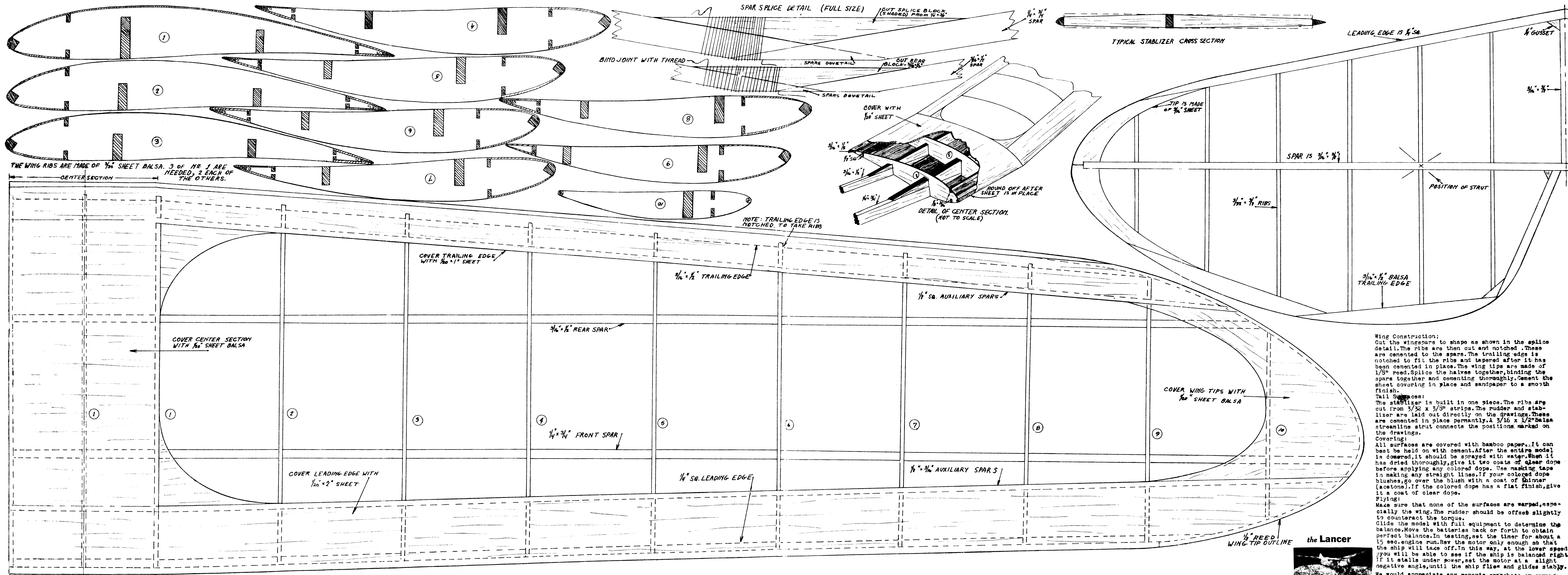
M1 and M2 ARE MADE OF 2 PIECES OF 3/32\"/>



BUILDING THE "LANCER" Study the plans and sketches carefully before beginning construction. If any detail appears hazy, construct the model as far as possible. In most cases, the construction will become clear as your work progresses. Secure a board about three feet long and one foot wide, or use a work bench or table top to lay out your work.

THE FUSELAGE: Lay a sheet of waxed paper over the plan and lay out the main framework. The longerons, uprights and diagonals are 1/4\"/>





**Wing Construction:**  
 Cut the wingspars to shape as shown in the splice detail. The ribs are then cut and notched. These are cemented to the spars. The trailing edge is notched to fit the ribs and tapered after it has been cemented in place. The wing tips are made of 1/8" reed. Splice the halves together, binding the spars together and cementing thoroughly. Cement the sheet covering in place and sandpaper to a smooth finish.

**Tail Structures:**  
 The stabilizer is built in one piece. The ribs are cut from 3/32 x 3/8" strips. The rudder and stabilizer are laid out directly on the drawings. These are cemented in place permanently. A 3/16 x 1/2" balsa streamline strut connects the positions marked on the drawings.

**Covering:**  
 All surfaces are covered with bamboo paper. It can best be held on with cement. After the entire model is covered, it should be sprayed with water. When it has dried thoroughly, give it two coats of clear dope before applying any colored dope. Use masking tape in making any straight lines. If your colored dope blushes, go over the bluish with a coat of thinner (acetone). If the colored dope has a flat finish, give it a coat of clear dope.

**Flying:**  
 Make sure that none of the surfaces are warped, especially the wing. The rudder should be offset slightly to counteract the torque.

Slide the model with full equipment to determine the balance. Move the batteries back or forth to obtain perfect balance. In testing, set the timer for about a 15 sec. engine run. Rev the motor only enough so that the ship will take off. In this way, at the lower speed, you will be able to see if the ship is balanced right. If it stalls under power, set the motor at a slight negative angle, until the ship flies and glides stably.

We would appreciate any reports, snapshots or comments from builders of this ship.

