

REBEL III

ALEX IMRIE REVEALS THE TRADITIONAL CONSTRUCTION DETAILS OF PETE BOWERS' 1938 ORIGINAL



A meeting with the author and other experts regarding the restoration of the Rebel III. The author is on the left, and the other experts are on the right. The aircraft is visible in the background.

Peter Bowers is an FBI writer who wrote "Paul Pezart", an original, he was there then! I have already learned heavily on this amazing model's work in previous articles and this month will look at what he had to say about building the famous Rebel III powerboat.

A general survey of the Rebel design appeared in the July 1986 issue. It included a three-view drawing from Frank Zick's Junior Aircrafts Yearbook and in the narrative I made to hold as to mention the unusual fuselage construction, stating that members were "raised at the front to allow the forward part of the craft to come forward to impart the correct bottom outline." This was merely a loose interpretation from the drawing and as we shall see below it was, strictly speaking, incorrect. In June, Ian Vintage Cornerman was made of work done by Peter Bowers did in 1945 while serving in the US Army Air Force based in Italy when writing a proposed book on the hobby occupied his leisure hours. The book was

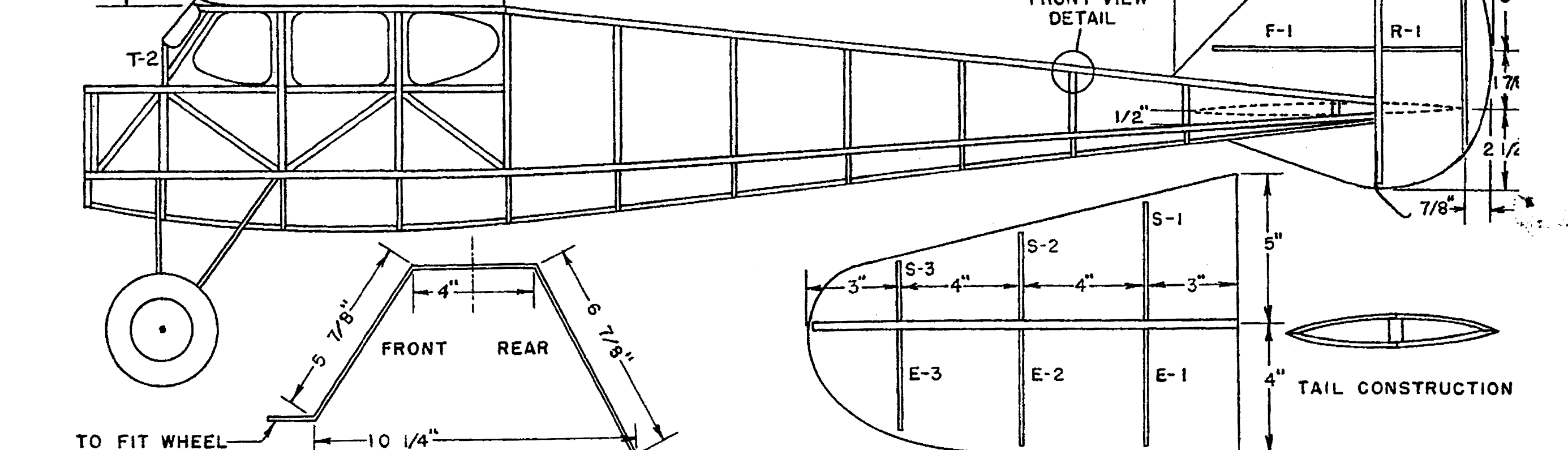
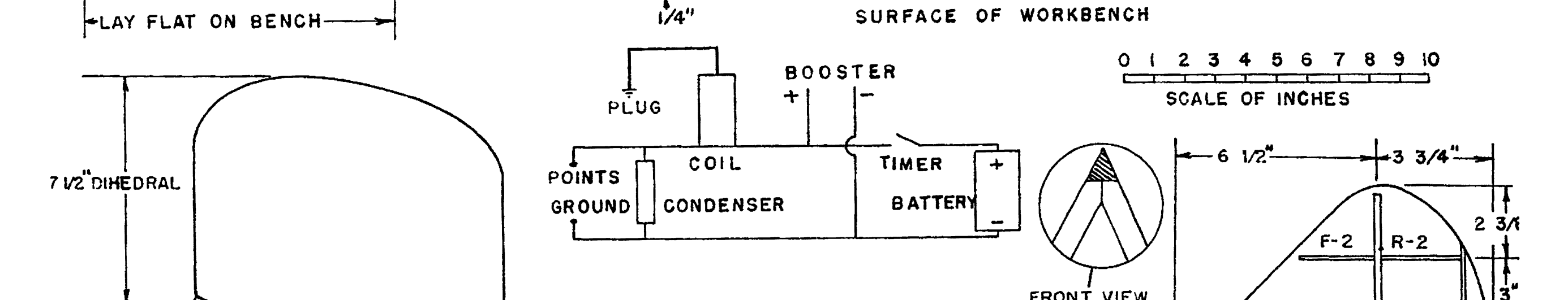
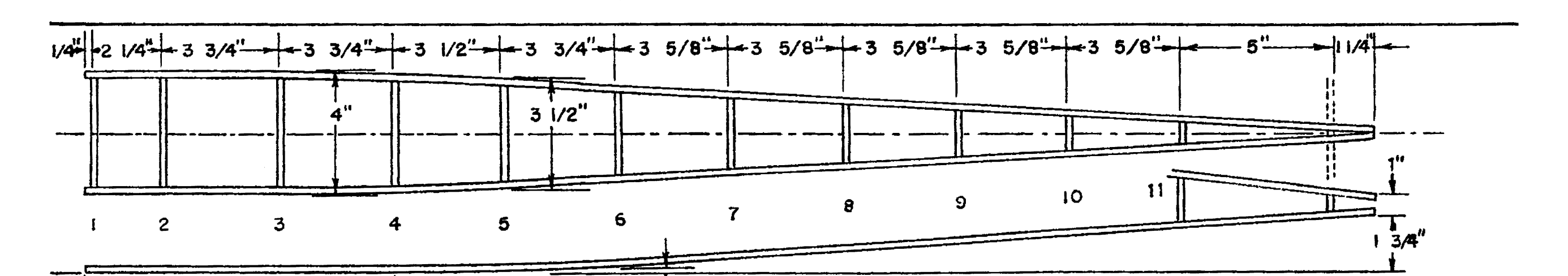
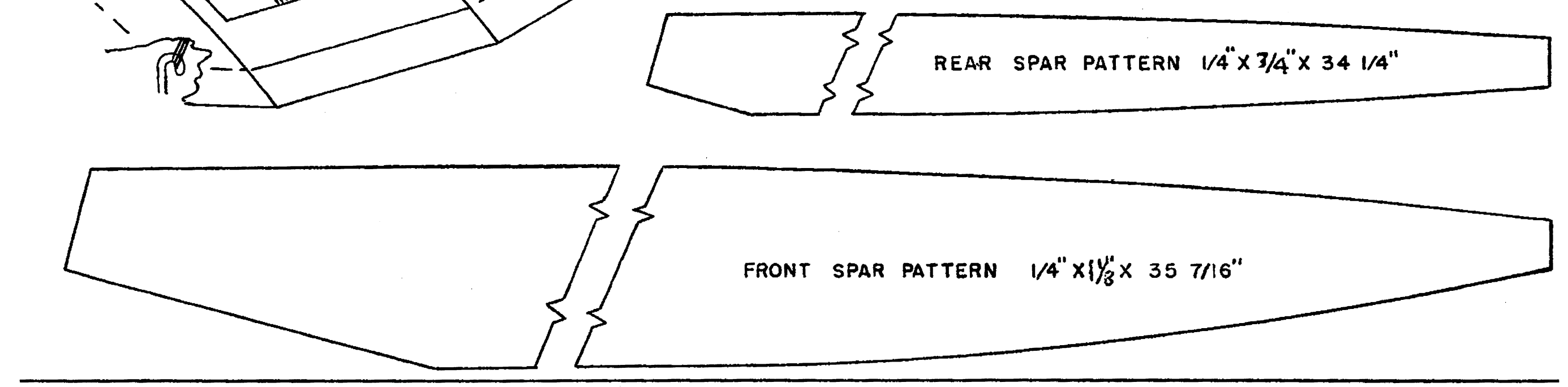
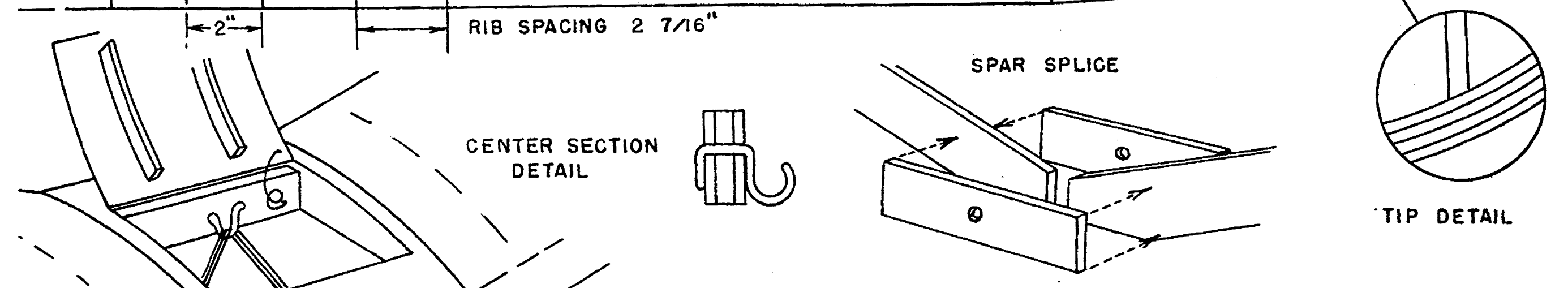
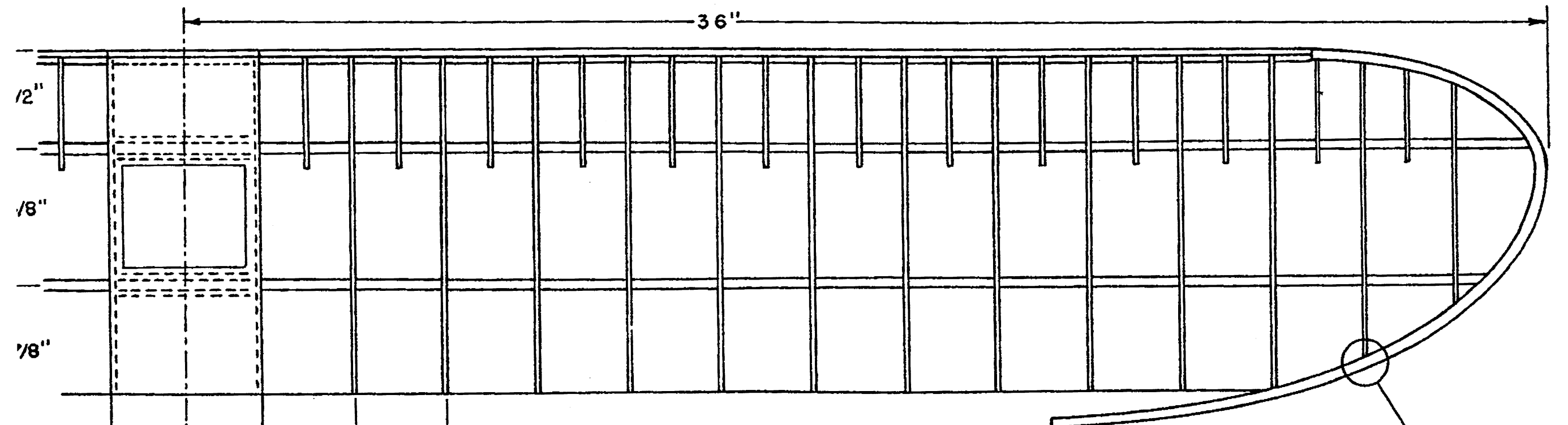
number of interesting chapters of value to present the author. Readers should bear in mind that Pete was catering for beginners, so you apply to be a true vintage modeler; his building instructions, although appearing labor intensive to modern eyes, need not be thought of as being - the writer considers them to be a first class

introduction to the making of a free flight power model and recommends the practice. Rebel - you will then be justified in feeling that you have actually MADE your model in the manner used some 60 years ago! The construction is laborious, and the only adhesive used is balsam cement. If you are a "typo kid" and need to take measure day "shore-wood" to ease your lot, maybe you should not be reading this column anyway!

FORELAGE (1)
Study the plans carefully. The construction is a bit unorthodox in places, and while it's simple enough, it is possible to run the whole job by setting it up improperly. Lay out a full-size drawing of the plan of the basic fuselage frame on the bench, and split it from 1/2" square hard balsa be sure that the longitudinal project 1/4" beyond the first cross piece, as these are needed to hold the front bulkhead in place.

Trace the right half of the cabin top onto a

From the forelages showing the rib layout and the rib spacing. The rib spacing is 2 7/16".



TO FIT WHEEL - 10 1/4"

Original drawings for Rebel III prepared by Peter Bowers for inclusion in his 1945 book which was never published.

marked 'Yes' if it's complete the half then apply the right half on the left side, matching on the 1/2" line. Trace the full outline onto a 4" wide sheet of 1/4" plywood using a sharp pencil and a straight edge. The rib spacing is 2 7/16 inches. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

INTERNAL RIB SPARS
One of the most unorthodox features of this model is the use of internal ribs. The ribs are made of 1/4" plywood and are spaced 2 7/16 inches apart. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

FORELAGE (2)
Before covering the remainder of the fuselage, the four forelages must be made. The forelages are made of 1/4" plywood and are spaced 2 7/16 inches apart. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

TAIL BOOM
The tail boom is made of 1/4" plywood and is spaced 2 7/16 inches apart. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

RIGHT HALF OF CABIN TOP
The right half of the cabin top is made of 1/4" plywood and is spaced 2 7/16 inches apart. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

ROOT RIB MAKE 2
The root rib is made of 1/4" plywood and is spaced 2 7/16 inches apart. The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

INCHES SCALE (FULL - SIZE)
The drawing shows the layout of the ribs and the placement of the spar splice. The ribs are numbered 1 through 11. The cabin top is shown as a dashed line.

Ribs, formers and cabin top drawing will require enlarging on the photocopier to restore inch scale to actual size.