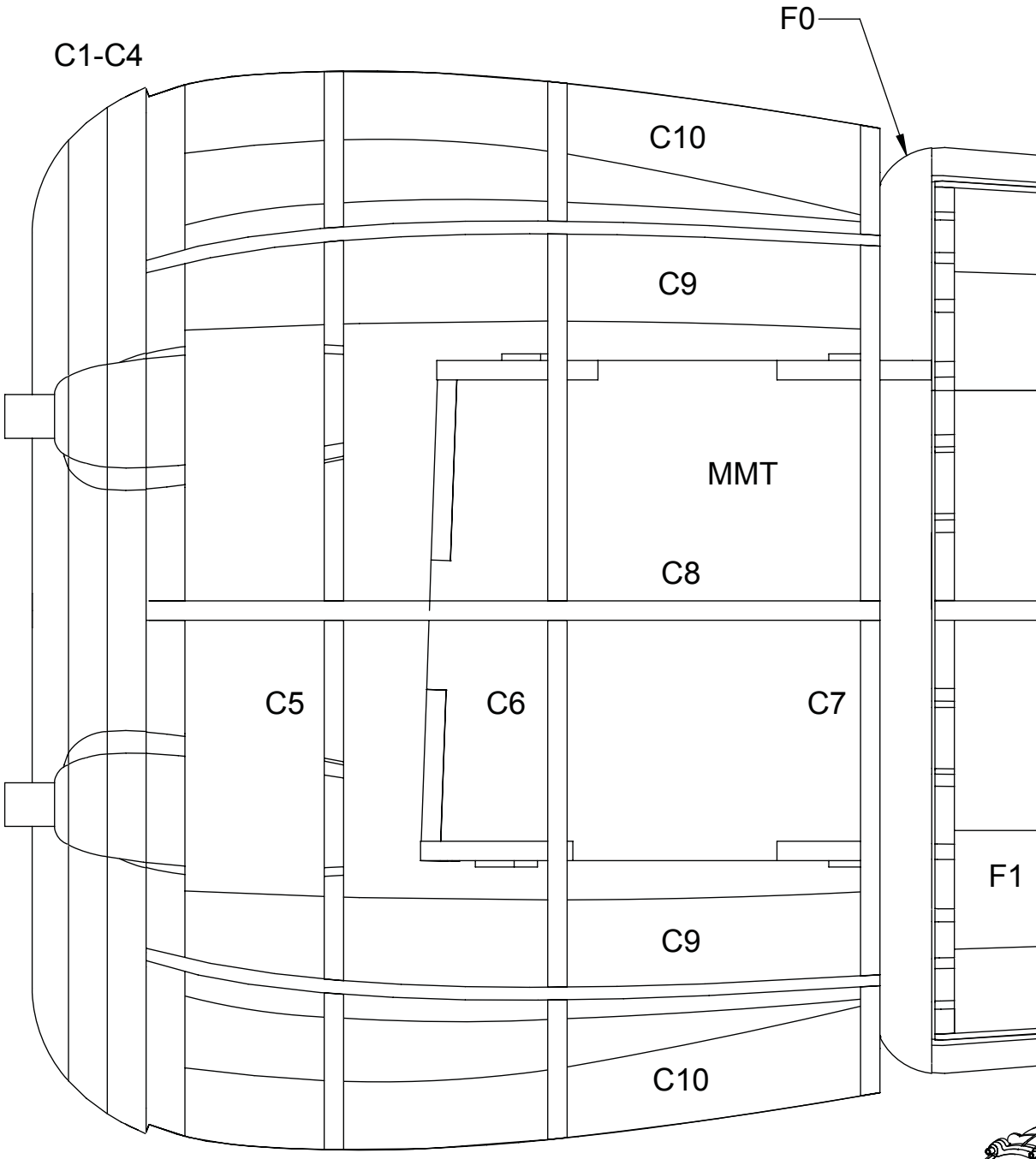
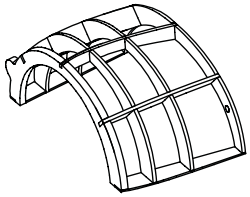




Cowl Frame Detail

Comp
Fra

COWL--ASSEMBLY ORDER:

1. Preassemble Cowl Opening rings C1 thru C4.
2. Stack and glue the rings together.
3. Preassemble Cowl Formers C5 thru

BATT

K5

F1

F2

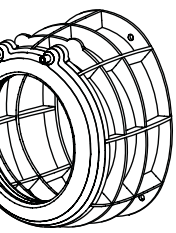
F3H

F3

F4

K4

K3

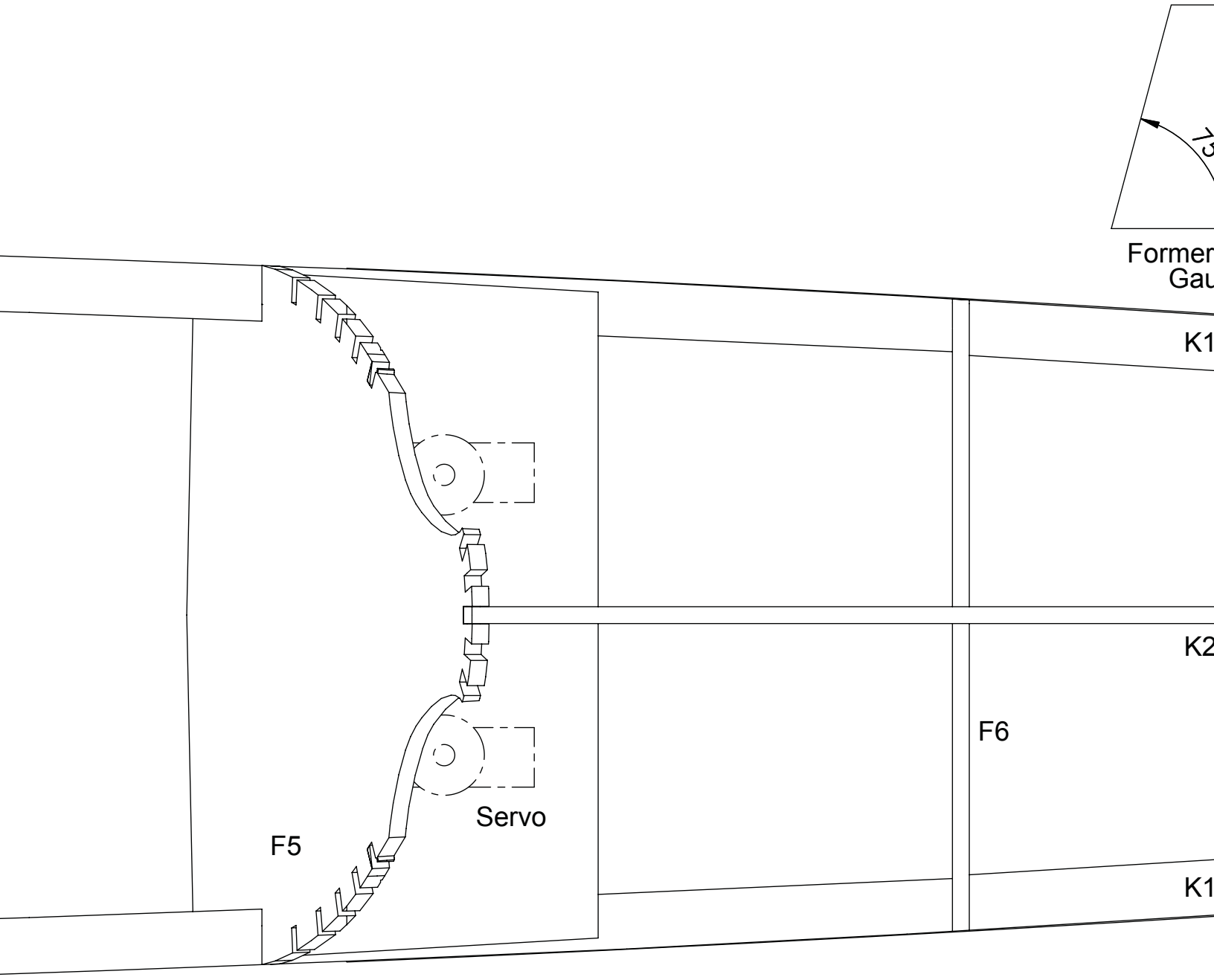


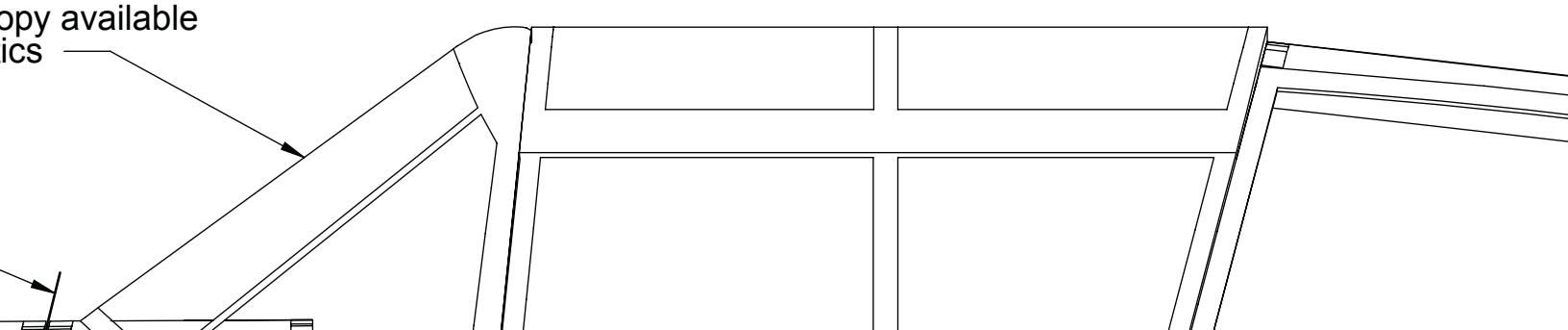
mpleted Cowl
Framework

Vacuum formed Canopy
from Park Flyer Plastics

Free hatch by cutting thru
stringers here

F0


Former
Gau
K1
K2
F6
Servo
F5
K1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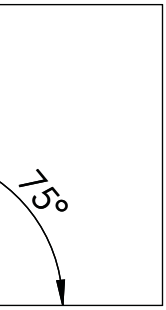
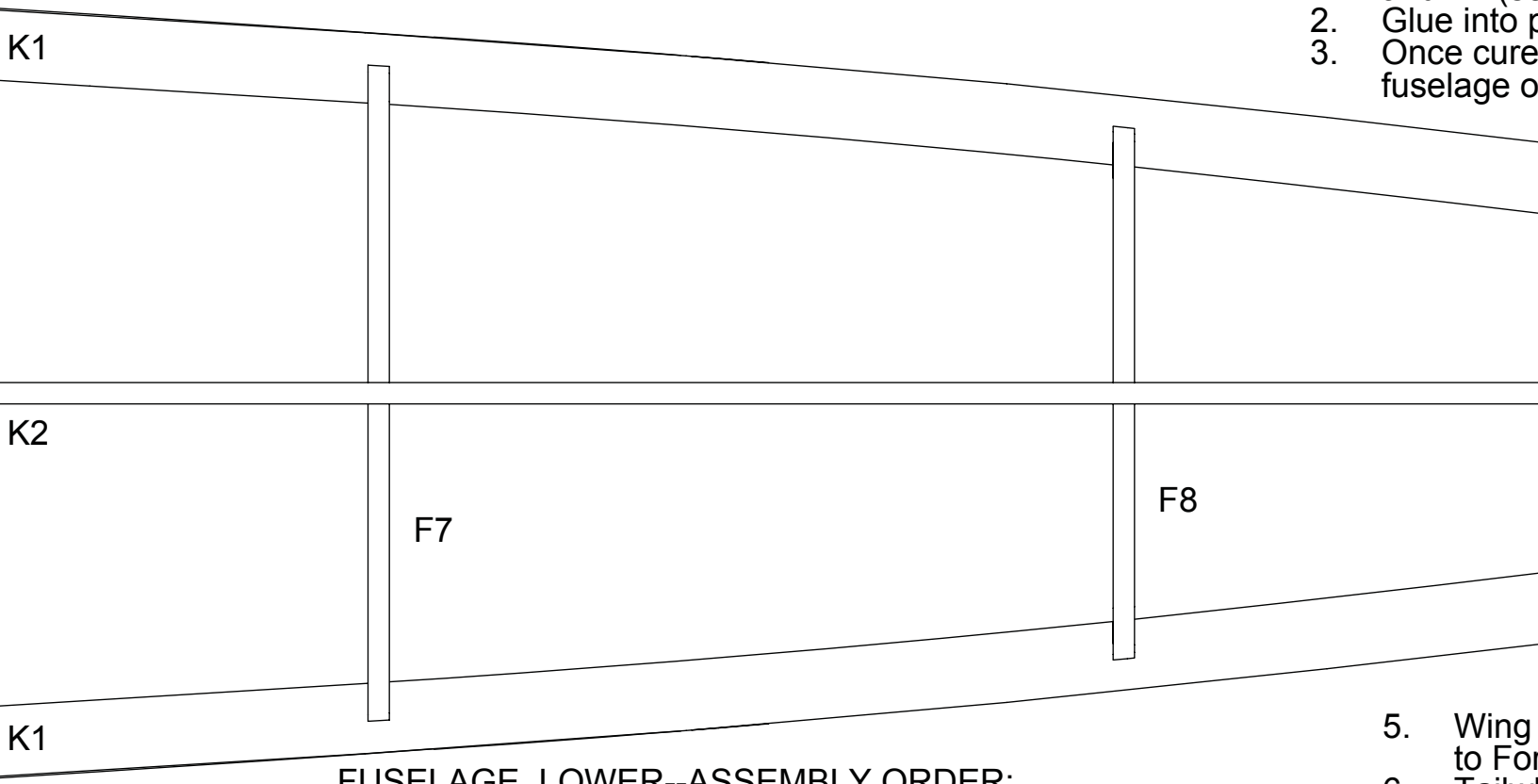


mer Angle
Gauge

FUSELAGE, UPPER--ASSEMBLY ORDER:

Build the top half of the fuse over the plan.

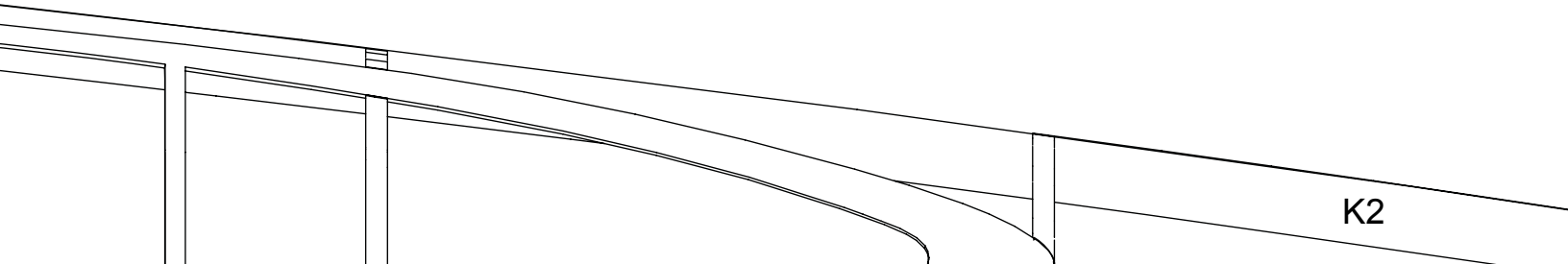
1. Preassemble Formers F0, F2T, F2B, F4T thru F7T.
2. Keels K1--pin to plan.
3. All "T" Former parts F2 thru F10.
    1. Use Former Angle Gauge for F3 and F5.
    2. All others perpendicular to board.
4. Battery tray BATT to formers F2 and F3.
5. Servo tray SERVO.
6. Keel K2.
7. Lower Hatch R
8. Upper Hatch R
9. Hatch Formers
10. Keel K5.
11. Horizontal Stab
12. Stringers--all fu
    1. add enoug the board.
13. Side Windows- side window in
    1. Wet the ba and F7 (se
    2. Glue into p
    3. Once cure fuselage o



FUSELAGE, LOWER--ASSEMBLY ORDER:

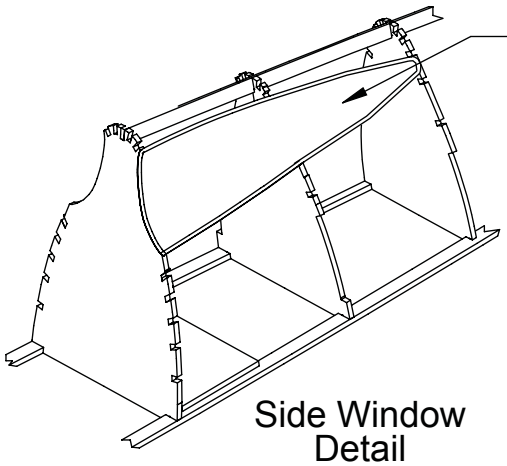
Build the lower half of the fuse free from the plan--side view drawing shown for reference.

1. Align and laminate Firewall parts F0 and F1.
2. Attach Firewall to front Keels and BATT.
3. Wing Pin WP--reinforce pin hole in F2B.
5. Wing to For
6. Tailwh
7. All "B
    1. C
8. Keels
9. Wing will cu
10. String where

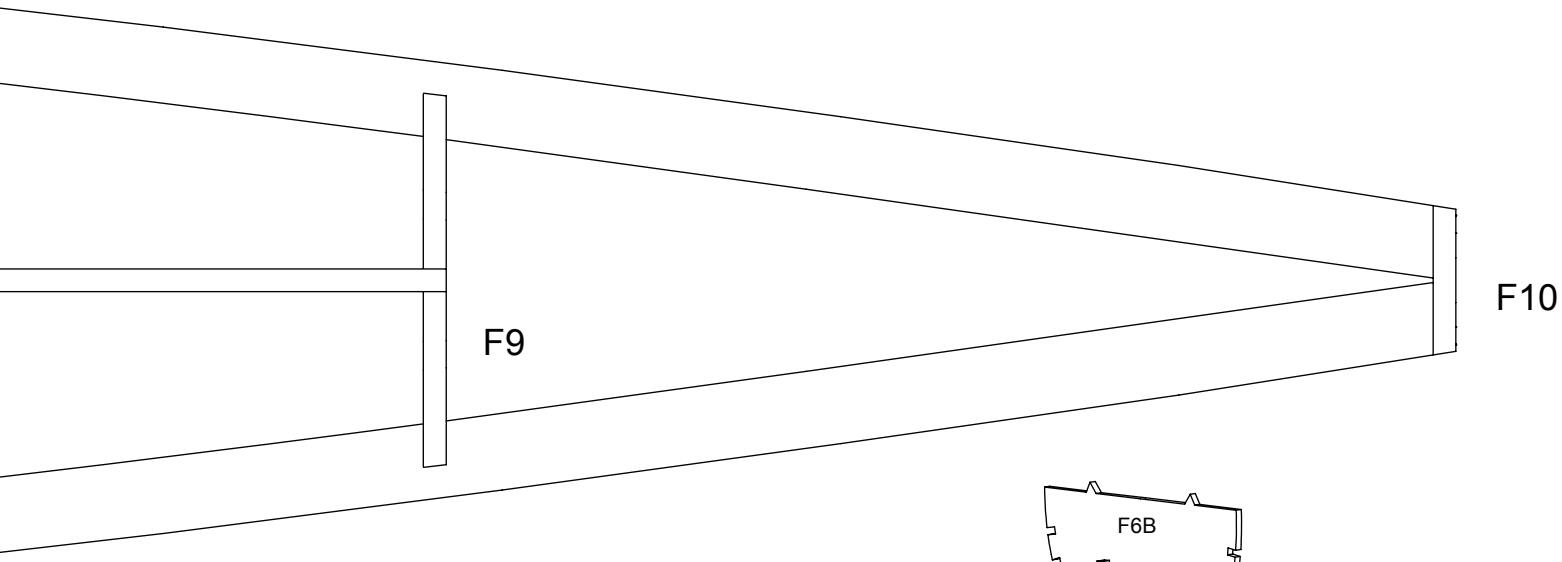


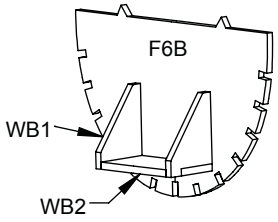
n Rails K3 to formers--glue to F2 and F3.
n Rails K4--set into place--do not glue.
ers F1H, F2H, and F3H--glue only to K4.

Stabilizer Supports HS.
ll fuselage stringers are 1/8" x 3/16" balsa.
ough to make the assembly rigid when unpinned from
rd.
ws--use outline of window frame as template and cut
inner walls from soft 1/16" balsa.
e balsa so that it curves into the space between F5, F6,
(see detail).
to place.
ured, trim and sand so that side window sits flush to the
e on top of the edges of the balsa window inner wall.



Side Window
Detail





Wing Bolt
Boss Detail

ng Bolt Boss--assemble parts WB1 and WB2 and attach
Former F6B (see detail).
ilwheel Plate--assemble TW, F9B, and F10B.
"B" Former parts F2 thru F10 .
Glue all parallel to their "T" counterparts.
eels K6 and K7.
ng Saddles WS--wet outer surface of these parts and they
l curve into place.
ringers--finish 'em off and then cut the battery hatch free
here shown.

Tail Group Outlines laminated from three
strips of softened 1/16" x 1/2" balsa

3mm

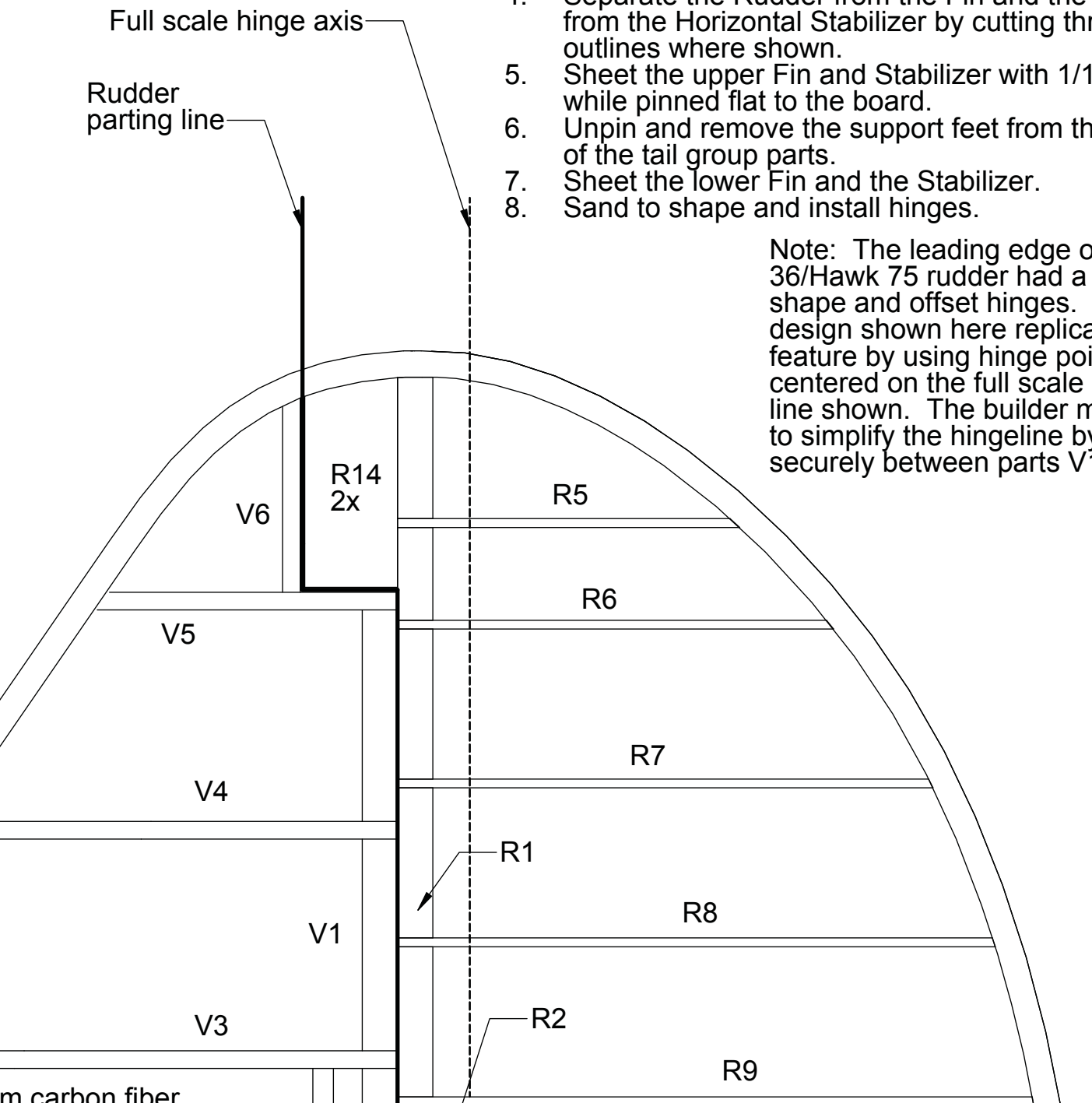
ndow inner
m 1/16"
heet

TAIL GROUP ASSEMBLY

Sheeting the fin and horizontal stabilizer and covering the rudder and elevators as open frameworks provides durability with a scale appearance.

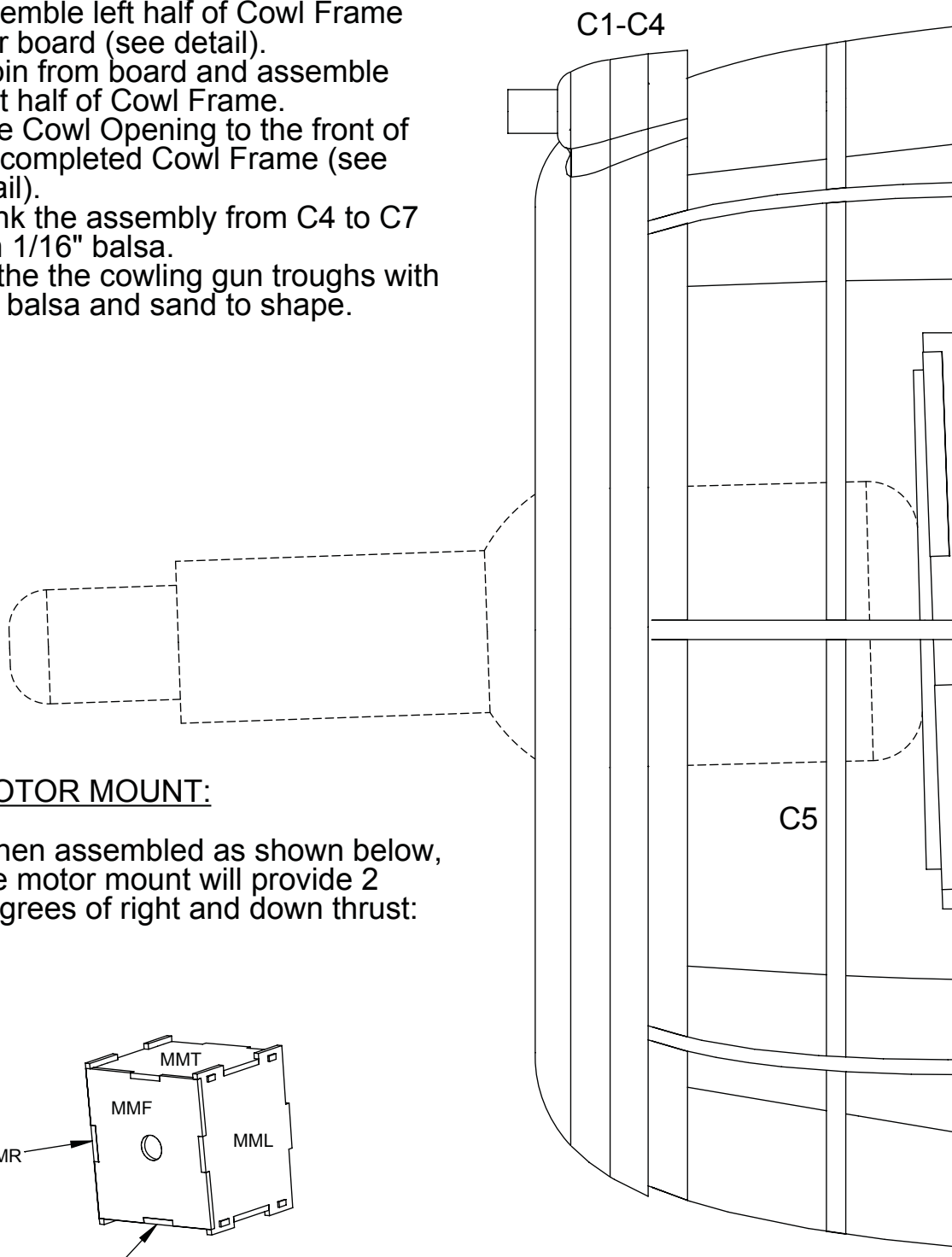
1. Begin tail group assembly by laminating outlines from three strips of 1/16" x 1/2" balsa around a form.
2. Pin the cured outlines into place over the plan.
3. Install the tail framework parts in numerical order.
4. Separate the Rudder from the Fin and the Elevators from the Horizontal Stabilizer by cutting through the outlines where shown.
5. Sheet the upper Fin and Stabilizer with 1/16" balsa while pinned flat to the board.
6. Unpin and remove the support feet from the bottom of the tail group parts.
7. Sheet the lower Fin and the Stabilizer.
8. Sand to shape and install hinges.

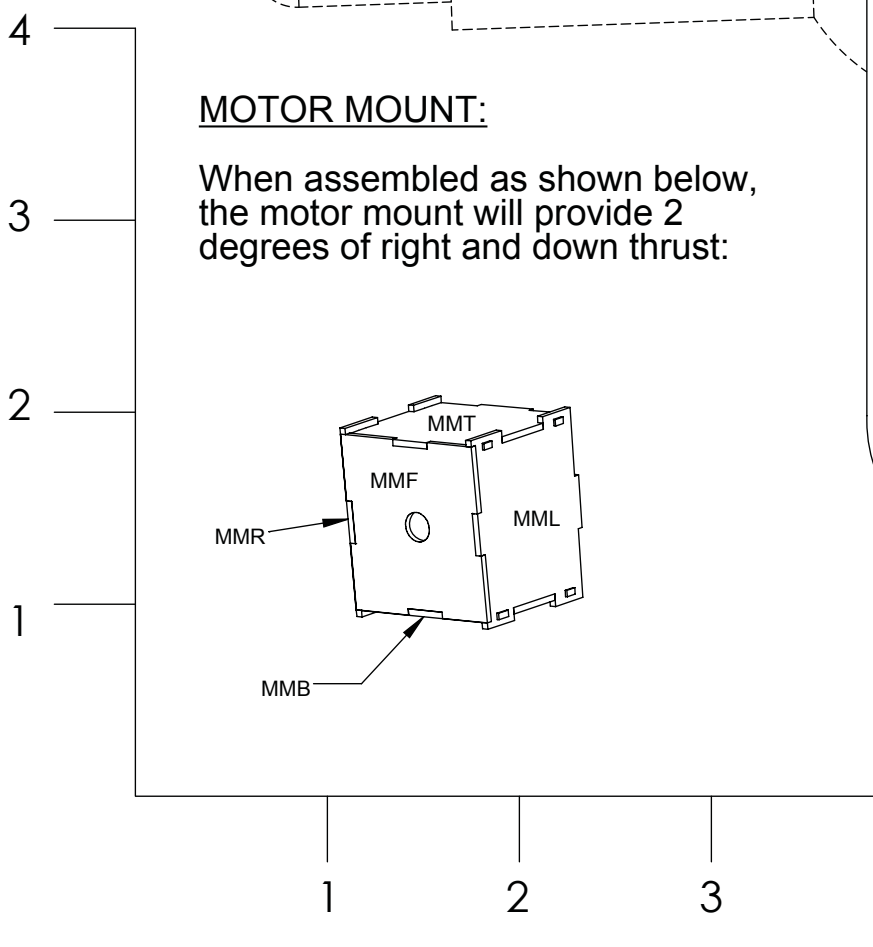
Note: The leading edge of the P-36/Hawk 75 rudder had a complex shape and offset hinges. The base design shown here replicates this feature by using hinge points centered on the full scale hinge axis line shown. The builder may choose to simplify the hingeline by hinging securely between parts V1 and R1.



2. Stack and glue the rings together.
3. Preassemble Cowl Formers C5 thru C7 into left and right halves.
4. Assemble left half of Cowl Frame over board (see detail).
5. Unpin from board and assemble right half of Cowl Frame.
6. Glue Cowl Opening to the front of the completed Cowl Frame (see detail).
7. Plank the assembly from C4 to C7 with 1/16" balsa.
8. Fill the the cowling gun troughs with soft balsa and sand to shape.

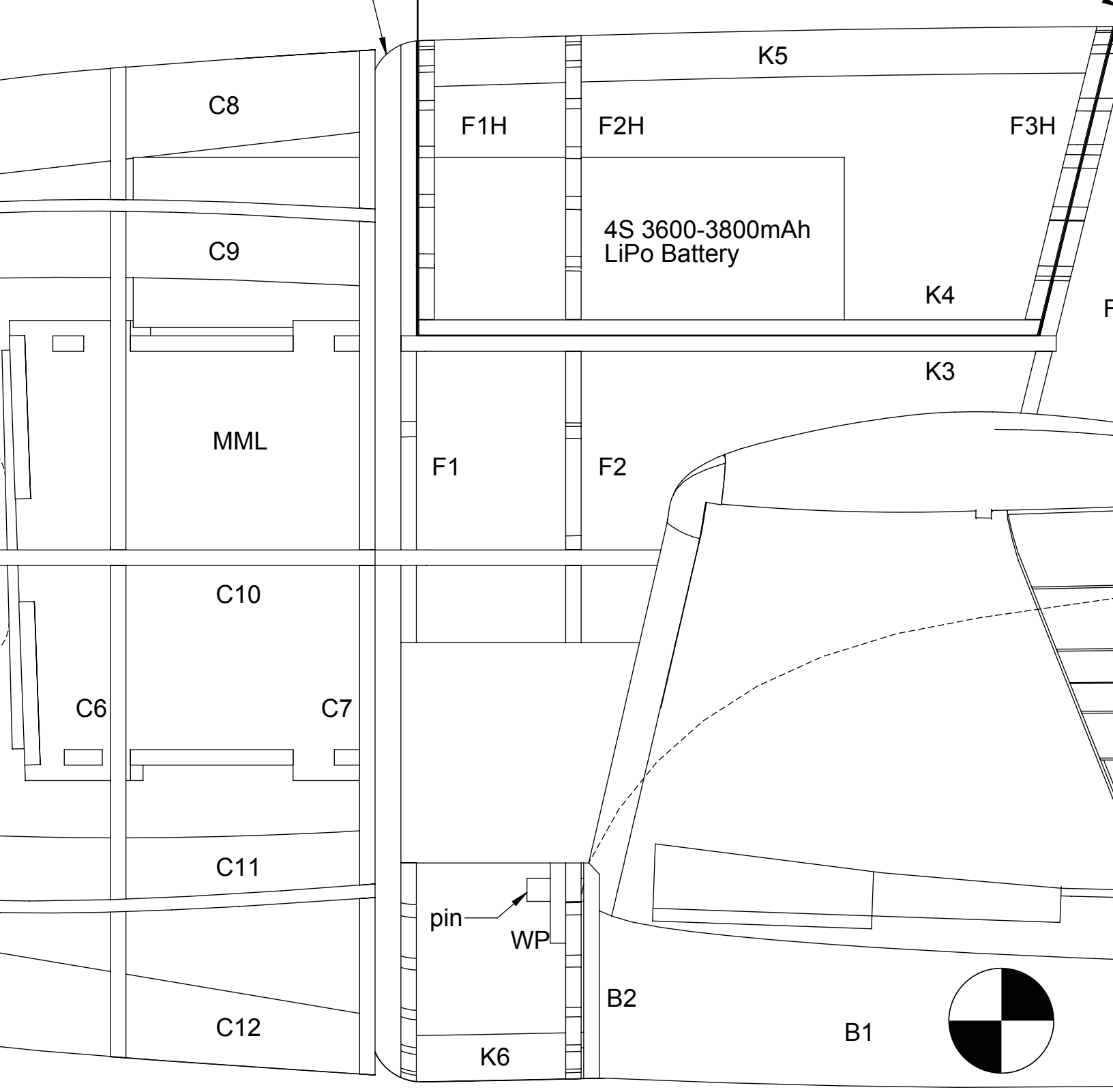
Detail



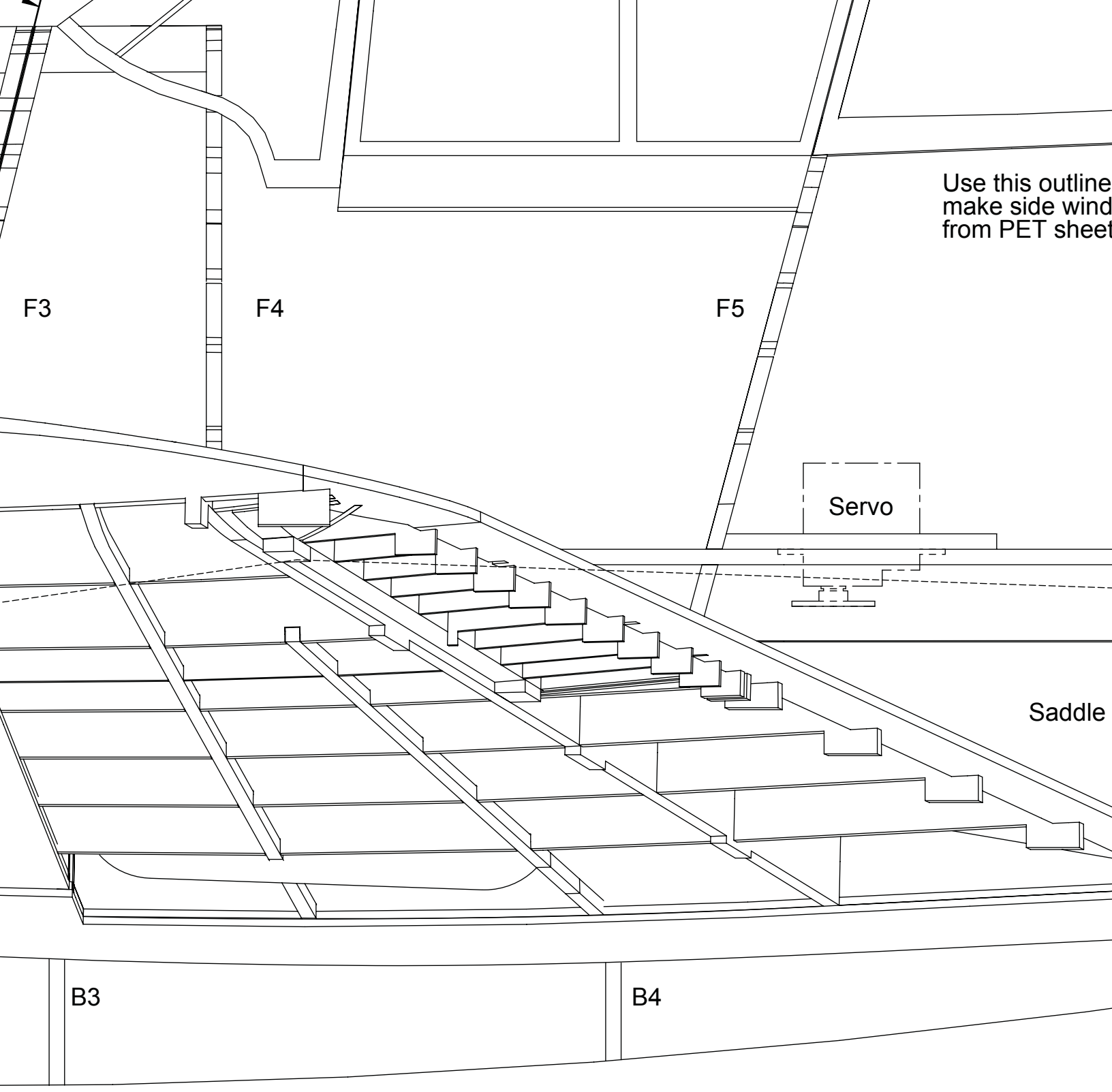


MOTOR MOUNT:

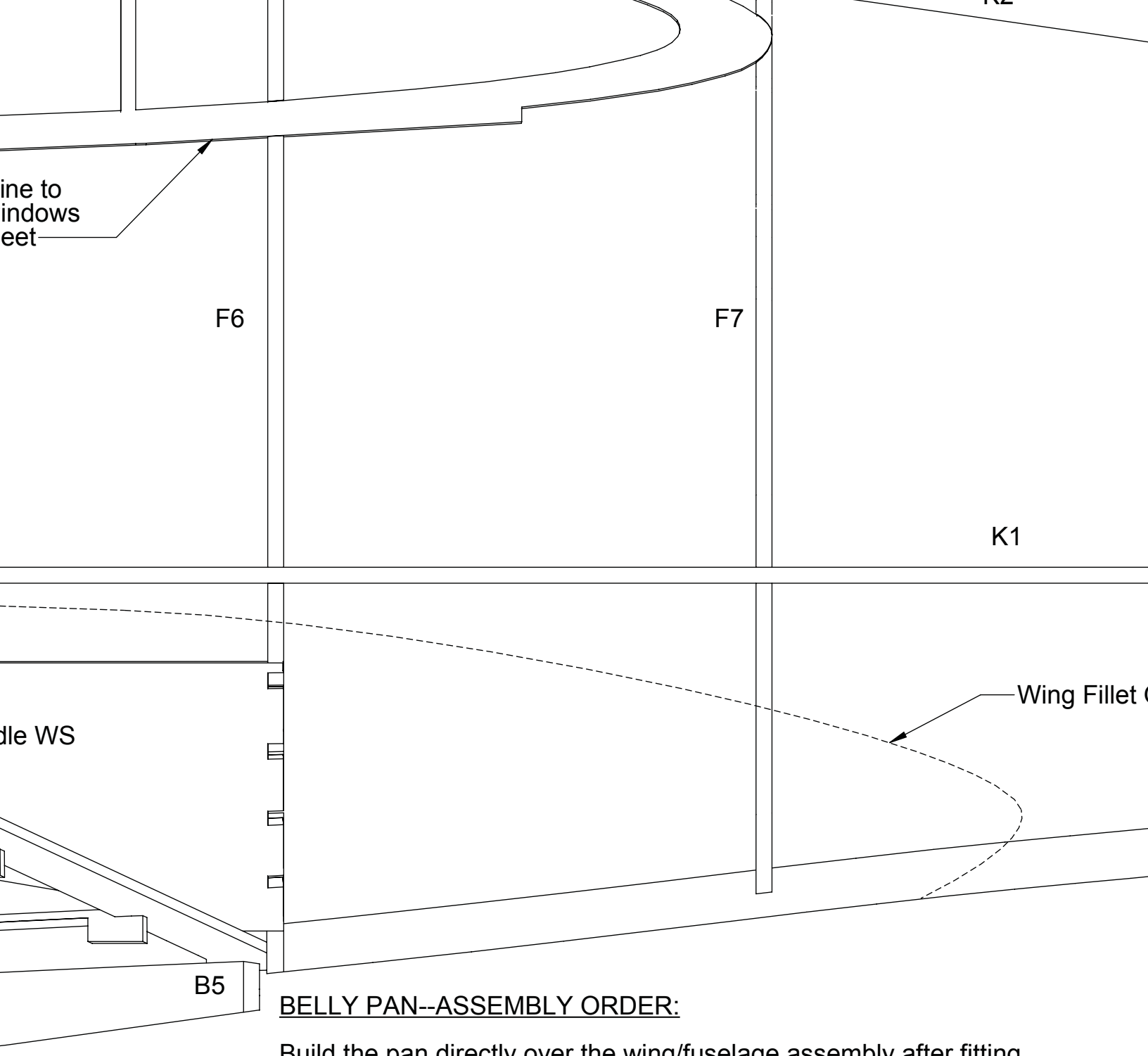
When assembled as shown below, the motor mount will provide 2 degrees of right and down thrust:



Cg shown is at 25% MAC
3 3/16" / 81mm from bac


Use this outline
make side wind
from PET sheet
F3
F4
F5
Servo
Saddle
B3
B4

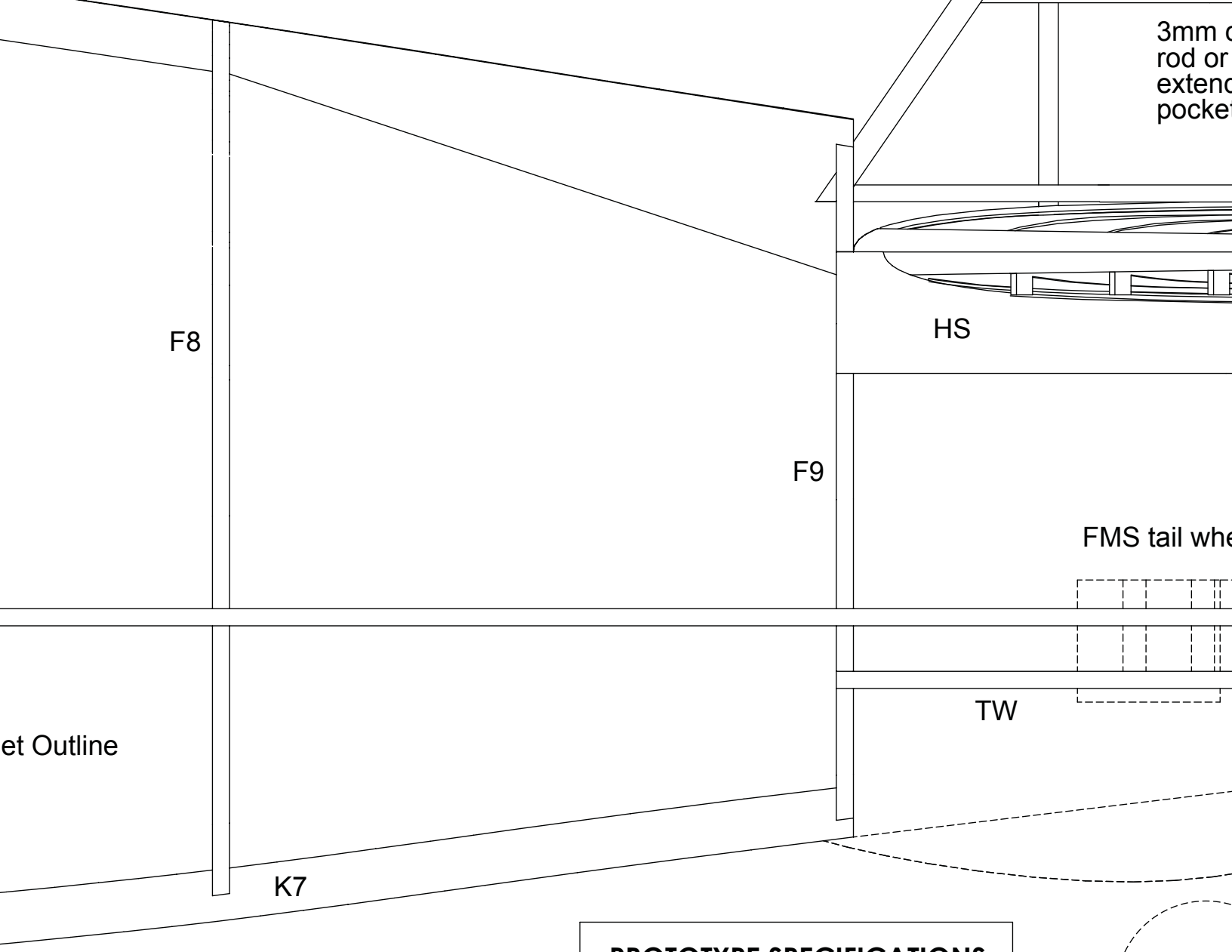
AC
back of F2



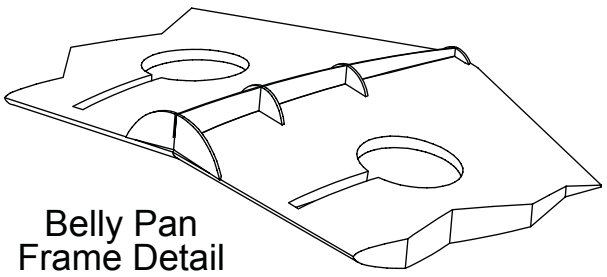
BELLY PAN--ASSEMBLY ORDER:

Build the pan directly over the wing/fuselage assembly after fitting the wing to the fuselage.

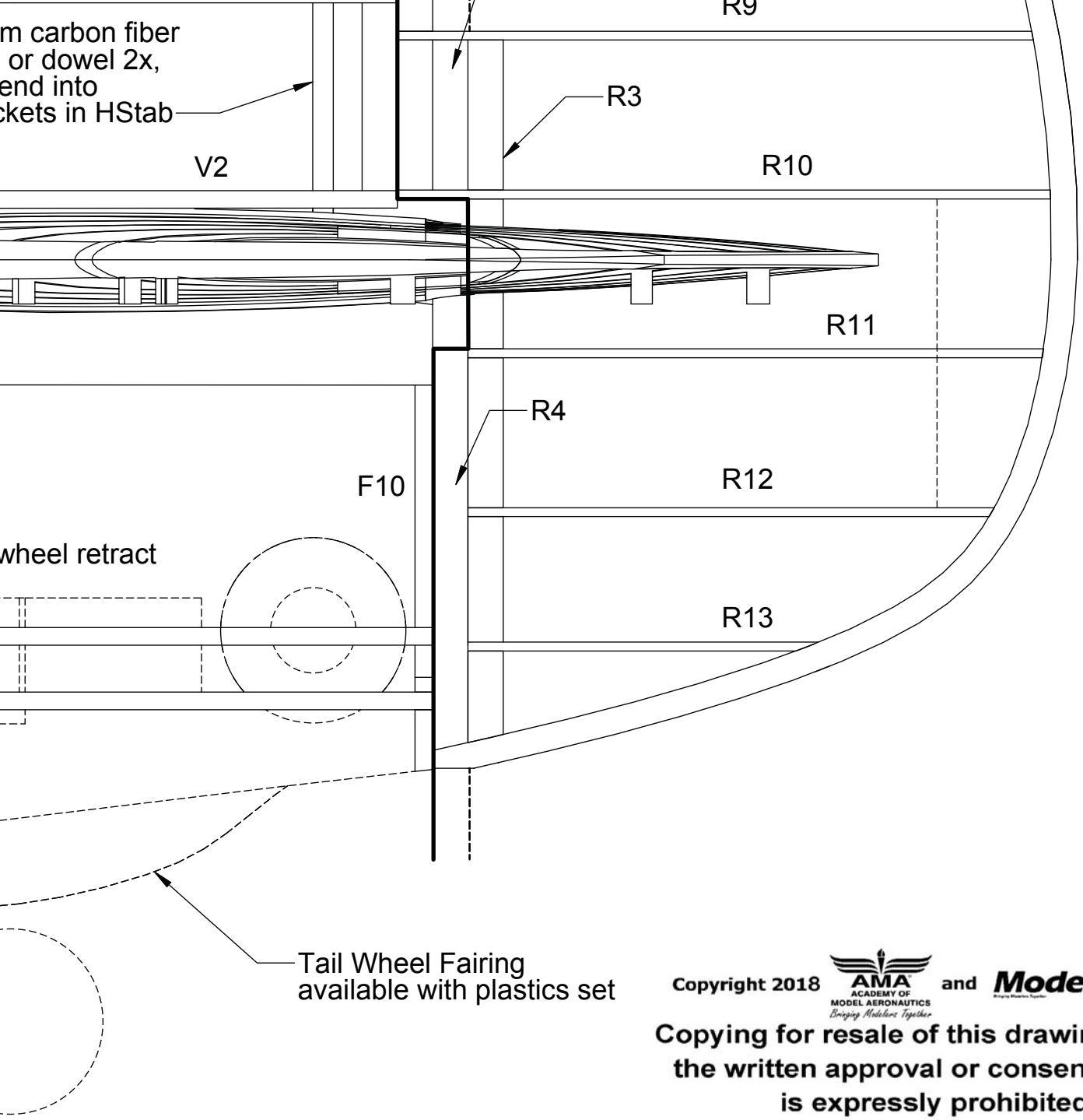
1. Glue front Former B2 perpendicular to keel B1.
    1. Pin this assembly to back of Fuse Former F2 and to the centerline of the wings (see detail).
2. Formers B3 thru B5--perpendicular to B1 and flush to wing.
3. Plank from B2 thru B5 with 1/16" balsa.
4. Belly Pan can be made removable with a pin at the front and magnets at the rear.



PROTOTYPE SPECIFICATIONS	
Wingspan	60"
Length	45.8"
Weight	58oz
Wing Area	591 sq in
Power	FMS 4258-650kV
Propellor	14x8 3-blade
Battery	4S 3800mAh



Belly Pan
Frame Detail



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Title

60" Curtiss P36 / Hawk 75

Size	Dwg. No.	Rev
X	Hawk 75 plan.drw	A

Scale: 1:1	Weight: 60oz	Sheet 1 of 4