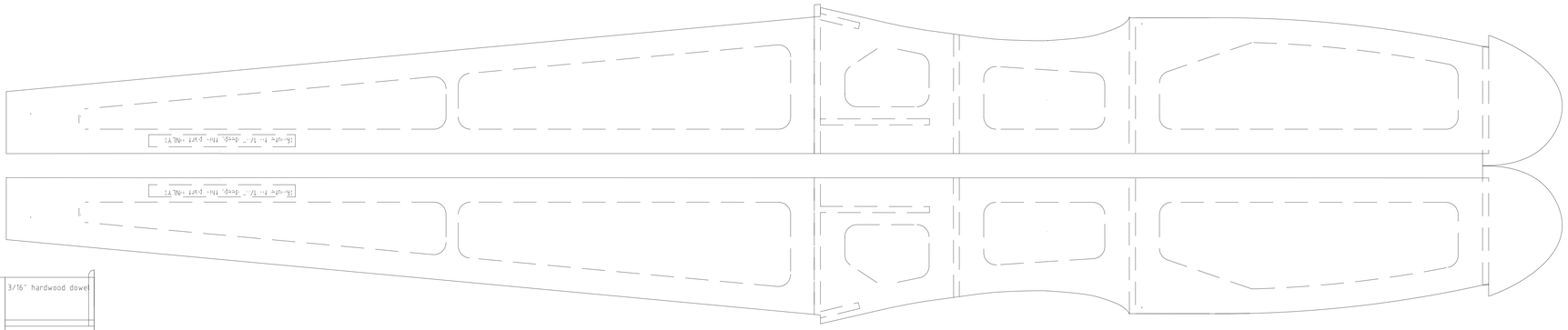
{1" X 1"}

{F2 (2)}

{F3 (2)}

{F4 (1)}

{F1 (2)}



{1/4" dowel, drilled for strut bottoms}

{Bottom Wing}

{Bottoms of both wings are parallel to tailplane (horizontal stab) AT ROOT and to fuse centerline.
Both wings have 1/16" washout at tips
3 degrees downthrust and 3 degrees right thrust}

3/16" hardwood dowel

{Dowel brace}

{1/8 X 1/4" bass}

{Brown paper center section wrap}

{Bevel aileron LE top & bottom}

{1/16" music wire torque rods}

{1/8 X 3/32 balsa TE}

{F1}

{1/8" lite ply}

{Bevel fuselage sides for bulkheads}

{F2 1/8" lite ply}

F3 1/8" lite ply

{Bevel fuselage bulkheads}

{F4 1/8" lite ply}

1/8" lite ply upper LG plate

1/8" lite ply LG brace (2)

1/8" lite ply lower front LG plate

1/8" lite ply lower middle LG plate

1/8" lite ply lower rear LG plate

Wing bolt plate lower 1/8" lite ply

Wing bolt plate upper 1/8" lite ply

1/8" lite ply bolt brace (2)

{Upper bolt plate fits between triangular braces}

{1/8" lite ply dowel (wr wing dowel reinforcement}

{1/8" lite ply dowel (wr wing dowel reinforcement}

Drill 1/4" dowel for 1/32" wire strut ends. When satisfied struts are correct length, CA wire into dowel. Keep wires from slipping out of struts with tubing or shrink wrap. But leave loose enough to be slid off for strut removal)

{Top Wing}

{Wing segment jig position 8 1/16" from root}

{Point wire strut ends outwards!}

{Dihedral 2 degrees per panel, top & bottom wings 1/2" under each tip (before tip is rounded)}

{1/8 X 3/32 balsa TE}

{Cabane hardpoint & dihedral joiner}

{Center-section hatch opening}

{Cabane hardpoint & dihedral joiner}

{Wing jig (2)
Make from foam board, etc.
Use at 1/2 span (8 1/16") }

{1/32" holes 1/4" from strut end}

{Interplane Struts}

{2 layers 3/32" X 3/16" bass struts}

{I1 & I2}

{I3 & I4}

{I1 & I5}

{.032" flex cable}

{Cross-section at F3}

{Sew hole to bulkhead}

{Cross-section at F2}

{F2 1/8" lite ply}

{1/8 X 1/4" bass other side of plate}

1/8" lite ply tail skid mount

1/8 X 1/4" lite ply fuselage stiffeners (2)

{1/8" ply dihedral joiners (4)}

{3/8 X 1 1/4" bass Cabane center (4)}

{1/32" ply wing bolt reinforcement}

1/16" bass ply control horn (2)

1/4" foam fin

{1/16" ply or bass wire braces (6)}

{1/16" ply or bass wire braces (2)}

{2 smaller braces to @ side of elevator and one at rear of aileron (one large fwd)
Balsa blocks can substitute

{bevel}

{bevel}

1/8" foam doubler (2)

{1/4" foam tail surfaces, covered with newspaper}

1/4" foam rudder

{Turnigy G28/61}

HS-55

HS-55

{Root Master}

{Tip Master}

{Top at tip}

{Bottom at Tip }

{Root Top}

{Root Bottom}

Solder lug & socket head machine screw

Outboard struts omitted in this view

Budgie pilot was cut-out from picture and sandwiched around 1/8" foam

{foam block headrest}

1/2" thick foam sides, routed to 1/4" as shown.
Top & bottom 1/4" foam

1/4" foam tail surfaces, covered with newspaper

Toothpicks buried in fin & HS

bevel

1/8" foam doubler each side, taper aft

Hatch

Hinge

scrap foam fill

hatch top layer overlaps sides

hatch inner layer between sides

Small magnets in hatch inner and fuse sides

Cabanes inserted to into 7/16" ID aluminum tubes, then cross-wires soldered on

Sew 1/16" ID aluminum tubes to F2 & F3 w/Kevlar line, then CA

{HS-55}

1/8 X 1/4" fuselage stiffeners

1/2" foam fuse sides, routed to 1/4" as shown

1/8" lite ply LG brace

3/16" dowel

HS-55

{8-32 nylon bolts}

Exhaust vent

.032" Music wire tail skid, sewn to 1/8" lite ply plate

F1

F2

F3

{1" X 1"}

{Note: All cabane struts are 1/16" music wire}

{Front and rear cabanes (4)}

{diagonal cabane (2)}

2.5" Wheels

{3/32" Music wire Front}

{1/16" Music wire Rear strut}

{1/32" music wire top "A" strut anchors}

Note: small leg goes through tail skid ply plate

.032" Music wire tail skid

1/16" music wire elevator joiner

Budgie			
Wing Area:	400 In.Sq.	Wing Span:	32.2 In.
Weight:	24-28 Oz.	Length:	34.6 In.
Designed & Drawn by:	Bill Bowne	Date:	2018

{1" X 1"}