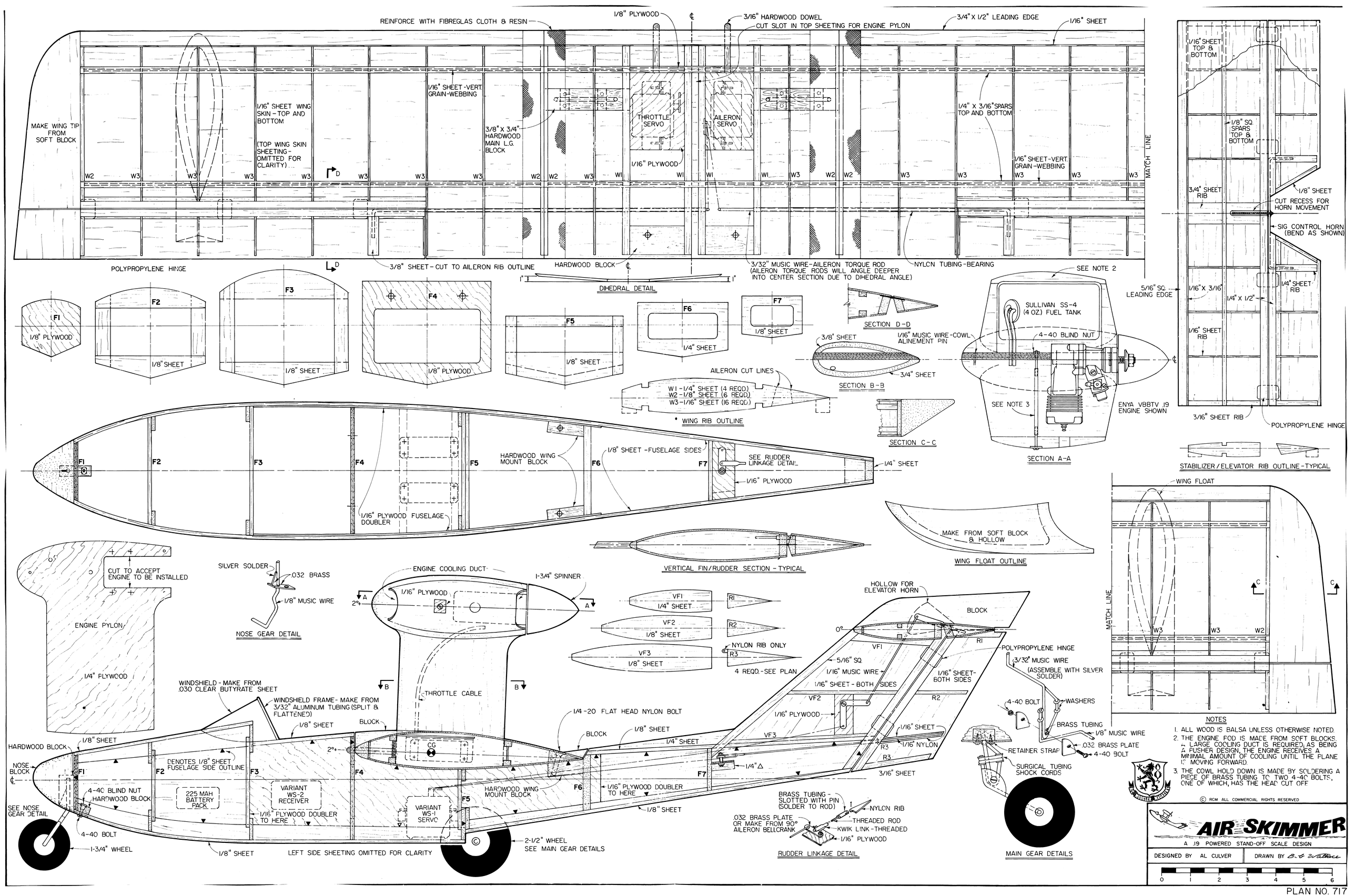
REINFORCE WITH FIBREGLAS CLOTH & RESIN
1/8" PLYWOOD
3/16" HARDWOOD DOWEL
CUT SLOT IN TOP SHEETING FOR ENGINE PYLON
3/4" X 1/2" LEADING EDGE
1/16" SHEET
MAKE WING TIP FROM SOFT BLOCK
1/16" SHEET WING SKIN - TOP AND BOTTOM
(TOP WING SKIN SHEETING - OMITTED FOR CLARITY)
1/16" SHEET - VERT. GRAIN - WEBBING
3/8" X 3/4" HARDWOOD MAIN L.G. BLOCK
THROTTLE SERVO
AILERON SERVO
1/16" PLYWOOD
1/4" X 3/16" SPARS TOP AND BOTTOM
1/16" SHEET - VERT. GRAIN - WEBBING
MATCH LINE
W2 W3 W3 W3 W3 W3 W3 W3 W2 W2 W3 W1 W1 W1 W1 W3 W2 W2 W3 W3 W3 W3 W3
POLYPROPYLENE HINGE
3/8" SHEET - CUT TO AILERON RIB OUTLINE
HARDWOOD BLOCK
3/32" MUSIC WIRE - AILERON TORQUE ROD (AILERON TORQUE RODS WILL ANGLE DEEPER INTO CENTER SECTION DUE TO DIHEDRAL ANGLE)
NYLON TUBING - BEARING
DIHEDRAL DETAIL
1/16" SHEET TOP & BOTTOM
1/8" SQ. SPARS TOP & BOTTOM
3/4" SHEET RIB
1/8" SHEET
CUT RECESS FOR HORN MOVEMENT
SIG CONTROL HORN (BEND AS SHOWN)
5/16" SQ. LEADING EDGE
1/16" X 3/16"
1/4" X 1/2"
1/4" SHEET RIB
1/16" SHEET RIB
3/16" SHEET RIB
POLYPROPYLENE HINGE
F1 1/8" PLYWOOD
F2 1/8" SHEET
F3 1/8" SHEET
F4 1/8" PLYWOOD
F5 1/8" SHEET
F6 1/4" SHEET
F7 1/8" SHEET
SEE NOTE 2
SULLIVAN SS-4 (4 OZ.) FUEL TANK
4-40 BLIND NUT
SEE NOTE 3
ENYA VBBTV 19 ENGINE SHOWN
SECTION A-A
SECTION D-D
3/8" SHEET
1/16" MUSIC WIRE - COWL ALINEMENT PIN
3/4" SHEET
SECTION B-B
AILERON CUT LINES
W1 - 1/4" SHEET (4 REQD.)
W2 - 1/8" SHEET (6 REQD.)
W3 - 1/16" SHEET (16 REQD.)
WING RIB OUTLINE
SECTION C-C
STABILIZER / ELEVATOR RIB OUTLINE - TYPICAL
HARDWOOD WING MOUNT BLOCK
1/8" SHEET - FUSELAGE SIDES
SEE RUDDER LINKAGE DETAIL
1/4" SHEET
1/16" PLYWOOD
1/16" PLYWOOD FUSELAGE DOUBLER
VERTICAL FIN / RUDDER SECTION - TYPICAL
MAKE FROM SOFT BLOCK & HOLLOW
WING FLOAT OUTLINE
WING FLOAT
CUT TO ACCEPT ENGINE TO BE INSTALLED
ENGINE PYLON
1/4" PLYWOOD
SILVER SOLDER
.032 BRASS
1/8" MUSIC WIRE
NOSE GEAR DETAIL
ENGINE COOLING DUCT
1-3/4" SPINNER
1/16" PLYWOOD
VF1 1/4" SHEET R1
VF2 1/8" SHEET R2
VF3 1/8" SHEET R3
NYLON RIB ONLY
4 REQD. - SEE PLAN
HOLLOW FOR ELEVATOR HORN
BLOCK
5/16" SQ.
1/16" MUSIC WIRE
1/16" SHEET - BOTH SIDES
1/16" SHEET - BOTH SIDES
POLYPROPYLENE HINGE
3/32" MUSIC WIRE (ASSEMBLE WITH SILVER SOLDER)
4-40 BOLT
WASHERS
BRASS TUBING
1/8" MUSIC WIRE
.032 BRASS PLATE
4-40 BOLT
RETAINER STRAP
SURGICAL TUBING SHOCK CORDS
MAIN GEAR DETAILS
WINDSHIELD - MAKE FROM .030 CLEAR BUTYRATE SHEET
WINDSHIELD FRAME - MAKE FROM 3/32" ALUMINUM TUBING (SPLIT & FLATTENED)
1/8" SHEET
THROTTLE CABLE
1/4-20 FLAT HEAD NYLON BOLT
BLOCK
1/8" SHEET
1/4" SHEET
1/16" PLYWOOD
1/16" SHEET
1/16" NYLON
3/16" SHEET
HARDWOOD BLOCK
NOSE BLOCK
SEE NOSE GEAR DETAIL
4-40 BLIND NUT
HARDWOOD BLOCK
4-40 BOLT
1-3/4" WHEEL
DENOTES 1/8" SHEET FUSELAGE SIDE OUTLINE
225 MAH BATTERY PACK
VARIANT WS-2 RECEIVER
1/16" PLYWOOD DOUBLER TO HERE
VARIANT WS-1 SERVO
HARDWOOD WING MOUNT BLOCK
1/16" PLYWOOD DOUBLER TO HERE
1/8" SHEET
1/4" △
2-1/2" WHEEL SEE MAIN GEAR DETAILS
LEFT SIDE SHEETING OMITTED FOR CLARITY
BRASS TUBING - SLOTTED WITH PIN (SOLDER TO ROD)
NYLON RIB
.032 BRASS PLATE OR MAKE FROM 90° AILERON BELLCRANK
THREADED ROD
KWIK LINK - THREADED
1/16" PLYWOOD
RUDDER LINKAGE DETAIL
NOTES
1. ALL WOOD IS BALSA UNLESS OTHERWISE NOTED.
2. THE ENGINE POD IS MADE FROM SOFT BLOCKS. A LARGE COOLING DUCT IS REQUIRED, AS BEING A PUSHER DESIGN, THE ENGINE RECEIVES A MINIMAL AMOUNT OF COOLING UNTIL THE PLANE IS MOVING FORWARD.
3. THE COWL HOLD DOWN IS MADE BY SOLDERING A PIECE OF BRASS TUBING TO TWO 4-40 BOLTS, ONE OF WHICH, HAS THE HEAD CUT OFF
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AIR SKIMMER
A .19 POWERED STAND-OFF SCALE DESIGN
DESIGNED BY AL CULVER
DRAWN BY B. & B. Wallace
0 1 2 3 4 5 6

PLAN NO. 717