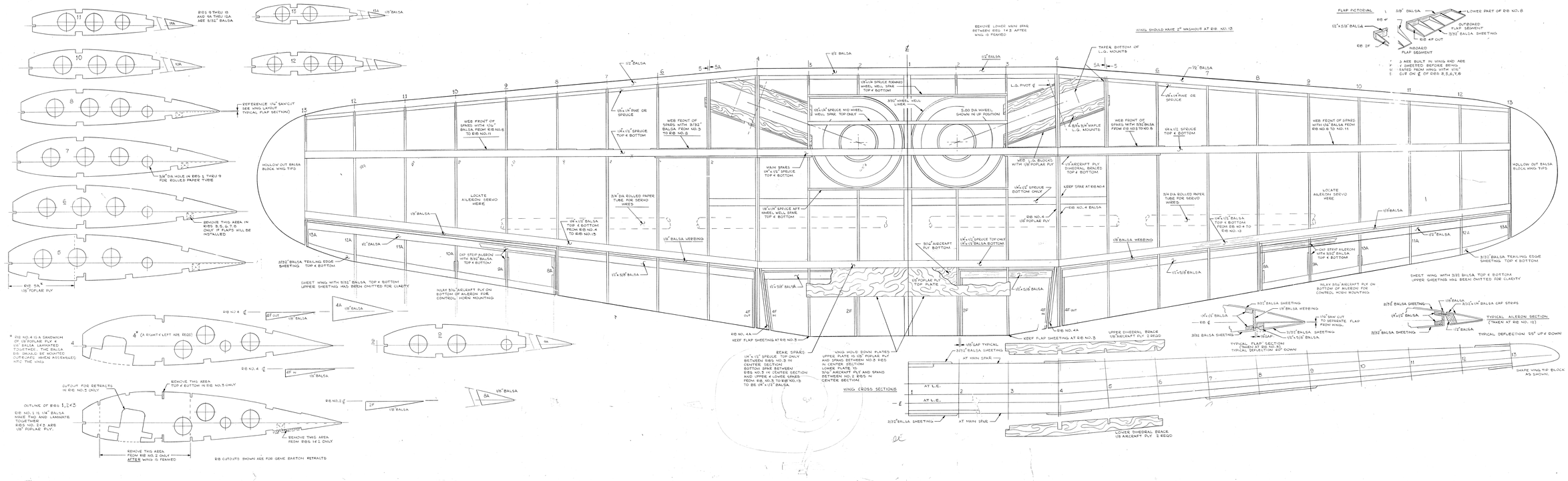
RIBS 9 THRU 18 AND 9A THRU 15A ARE 3/32" BALSA
1/8" BALSA
REFERENCE 1/16" SAW CUT SEE WING LAYOUT (TYPICAL FLAP SECTION)
3/8" DIA HOLE IN RIBS 1 THRU 9 FOR ROLLED PAPER TUBE
REMOVE THIS AREA IN RIBS 3,5,6,7,8 ONLY IF FLAPS WILL BE INSTALLED
END 5A 1/8" POPLAR PLY
RIB NO. 4 (A SANDWICH OF 1/8" POPLAR PLY & 1/16" BALSA LAMINATED TOGETHER. THE BALSA RIB SHOULD BE MOUNTED OUTBOARD WHEN ASSEMBLED INTO THE WING)
4" (A RIGHT & LEFT ARE REQD)
CUTOUT FOR RETRACTS IN RIB NO. 3 ONLY
REMOVE THIS AREA IN RIB NO. 3 ONLY
OUTLINE OF RIBS 1,2 & 3
RIB NO. 1 IS 1/4" BALSA MAKE TWO AND LAMINATE TOGETHER RIBS NO. 2 & 3 ARE 1/8" POPLAR PLY.
REMOVE THIS AREA FROM RIBS 1 & 2 ONLY
REMOVE THIS AREA FROM RIB NO. 2 ONLY AFTER WING IS FRAMED
RIB CUTOUTS SHOWN ARE FOR GENE BARTON RETRACTS
REMOVE LOWER MAIN SPAR BETWEEN RIBS 1 & 3 AFTER WING IS FRAMED
WING SHOULD HAVE 2" WASHOUT AT RIB NO. 12
1/2" BALSA
1/8"x1/8" PINE OR SPRUCE
1/4"x1/2" SPRUCE TOP & BOTTOM
WEB FRONT OF SPARS WITH 1/16" BALSA FROM RIB NO. 8 TO RIB NO. 11
WEB FRONT OF SPARS WITH 3/32" BALSA FROM NO. 3 TO RIB NO. 8
1/8"x1/8" SPRUCE MID WHEEL WELL SPAR TOP ONLY
1/8"x1/8" SPRUCE FORWARD WHEEL WELL SPAR TOP & BOTTOM
3/32" WHEEL WELL LINER
5.00 DIA WHEEL SHOWN IN UP POSITION
L.G. PIVOT ℄
TAPER BOTTOM OF L.G. MOUNTS
5A
5
1/4"x3/4" MAPLE L.G. MOUNTS
WEB FRONT OF SPARS WITH 3/32" BALSA FROM RIB NO. 3 TO NO. 8
1/4"x1/4" PINE OR SPRUCE
1/4"x1/2" SPRUCE TOP & BOTTOM
WEB FRONT OF SPARS WITH 1/16" BALSA FROM RIB NO. 8 TO NO. 11
HOLLOW OUT BALSA BLOCK WING TIPS
LOCATE AILERON SERVO HERE
1/8" BALSA
1/4"x1/2" BALSA TOP & BOTTOM FROM RIB NO. 4 TO RIB NO. 13
3/4" DIA ROLLED PAPER TUBE FOR SERVO WIRES
1/8" BALSA WEBBING
MAIN SPARS 1/4"x1/2" SPRUCE TOP & BOTTOM
1/8"x1/8" SPRUCE AFT WHEEL WELL SPAR TOP & BOTTOM
WEB 1/16 BLOCKS WITH 1/16" POPLAR PLY
4 1/8" AIRCRAFT PLY DIHEDRAL BRACES TOP & BOTTOM
1/4"x1/2" SPRUCE BOTTOM ONLY
KEEP SPAR AT RIB NO. 4
RIB NO. 4 1/8" POPLAR PLY
RIB NO. 4 BALSA
3/16" AIRCRAFT PLY BOTTOM
1/4"x1/2" SPRUCE TOP ONLY 1/4"x1/2" BALSA BOTTOM
1/8" POPLAR PLY TOP PLATE
1/4"x5/8" BALSA
CAP STRIP AILERON WITH 3/32" BALSA TOP & BOTTOM
3/32" BALSA TRAILING EDGE SHEETING TOP & BOTTOM
SHEET WING WITH 3/32" BALSA TOP & BOTTOM UPPER SHEETING HAS BEEN OMITTED FOR CLARITY
INLAY 3/16" AIRCRAFT PLY ON BOTTOM OF AILERON FOR CONTROL HORN MOUNTING
4A
4F
4F OUT
2F
RIB NO. 4A
KEEP FLAP SHEETING AT RIB NO. 3
REAR SPARS 1/4"x1/2" SPRUCE TOP ONLY BETWEEN RIBS NO. 3 IN CENTER SECTION BOTTOM SPAR BETWEEN RIBS NO. 3 IN CENTER SECTION AND UPPER & LOWER SPARS FROM RIB NO. 3 TO RIB NO. 13 TO RIB 1/4"x1/2" BALSA
WING MOUNT DOWN PLATES UPPER PLATE IS 1/8" POPLAR PLY AND SPANS BETWEEN NO. 3 RIBS IN CENTER SECTION LOWER PLATE IS 3/16" AIRCRAFT PLY AND SPANS BETWEEN NO. 2 RIBS IN CENTER SECTION.
WING CROSS SECTIONS
1/8" GAP TYPICAL
3/32" BALSA SHEETING
AT MAIN SPAR
AT L.E.
AT L.E.
UPPER DIHEDRAL BRACE 1/8" AIRCRAFT PLY 2 REQD
LOWER DIHEDRAL BRACE 1/8" AIRCRAFT PLY 2 REQD
FLAP PICTORIAL
1/2"x5/8" BALSA
RIB 4F
RIB 2F
5/8" BALSA
LOWER PART OF RIB NO. 8
OUTBOARD FLAP SEGMENT
3/32" BALSA SHEETING
RIB 4F OUT
INBOARD FLAP SEGMENT
* ARE BUILT IN WING AND ARE
F SHEETED BEFORE BEING
W RATED FROM WING WITH 1/16"
T CUT ON ℄ OF RIBS 3,5,6,7,8
1/4"x1/2" BALSA
RIB ℄
3/32" BALSA SHEETING
1/8" SAW CUT TO SEPARATE FLAP FROM WING.
1/8" GAP
3/32" BALSA SHEETING
1/4"x5/8" BALSA
TYPICAL FLAP SECTION (TAKEN AT RIB NO. 8) TYPICAL DEFLECTION 60° DOWN
3/32" BALSA SHEETING
1/8" BALSA WEBBING
3/32" BALSA SHEETING
1/8" BALSA
3/32"x1/4" BALSA CAP STRIPS
1/4"x1/2" BALSA
3/32" BALSA SHEETING
1/2" BALSA
TYPICAL AILERON SECTION (TAKEN AT RIB NO. 13)
TYPICAL DEFLECTION 25° UP & DOWN
SHAPE WING TIP BLOCK AS SHOWN.