

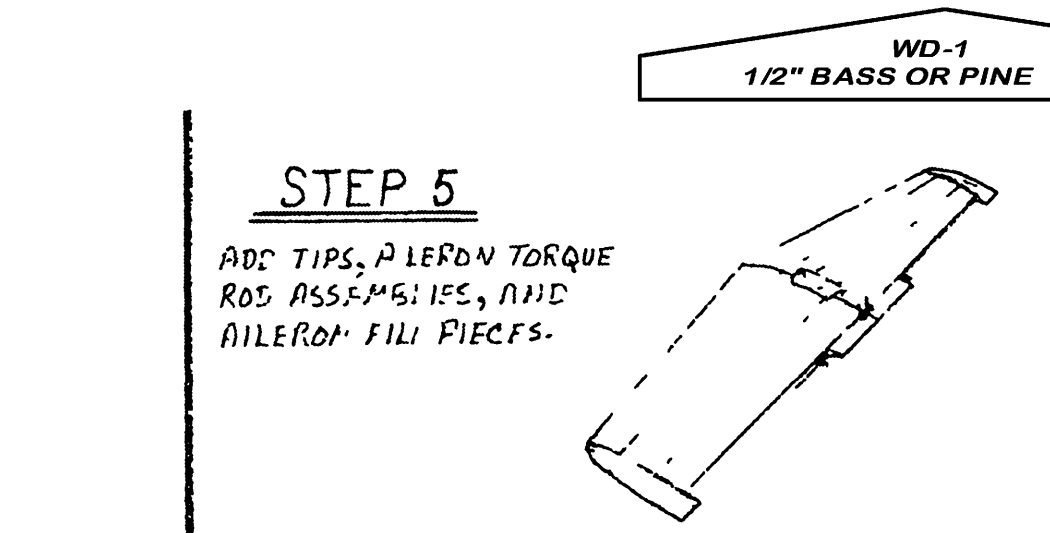
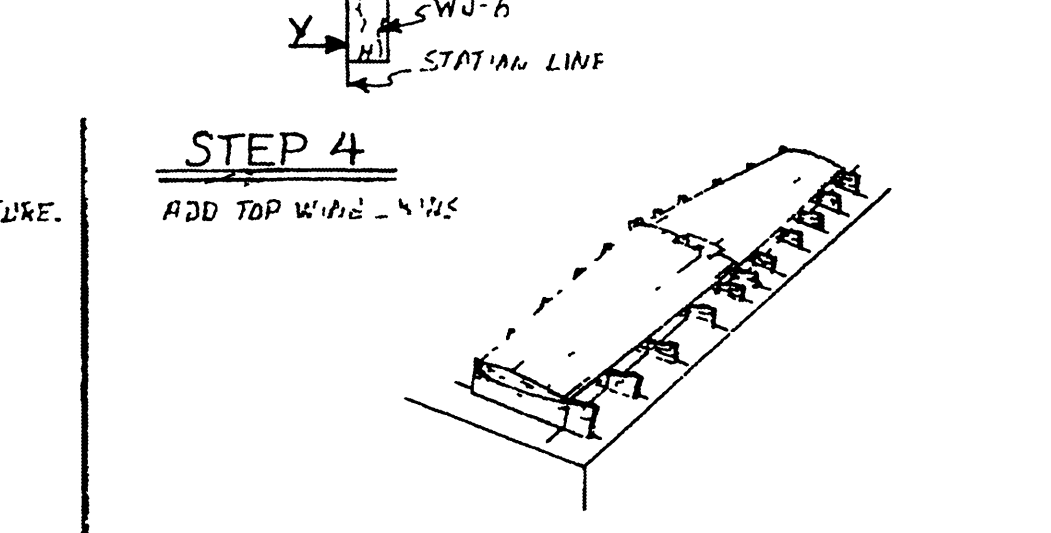
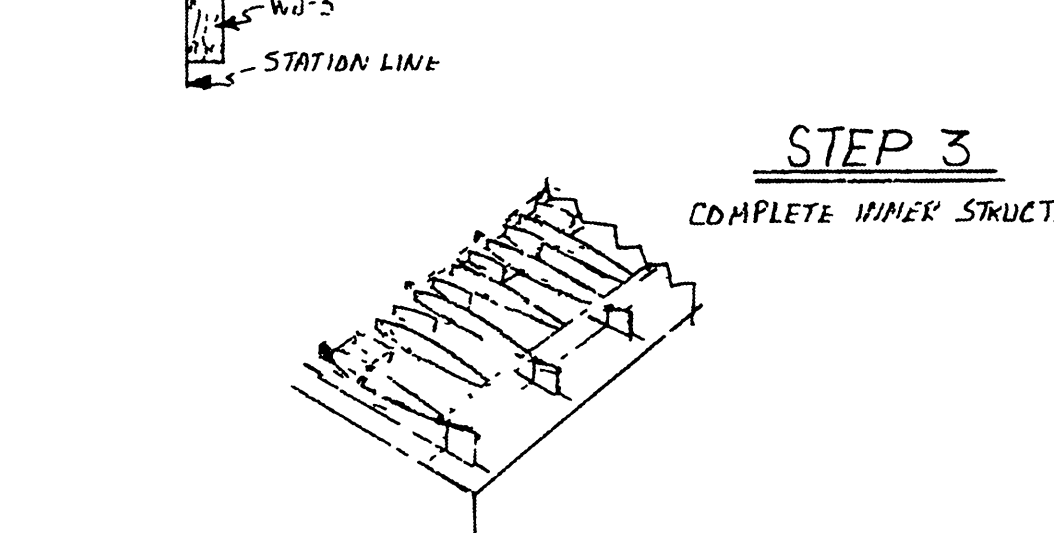
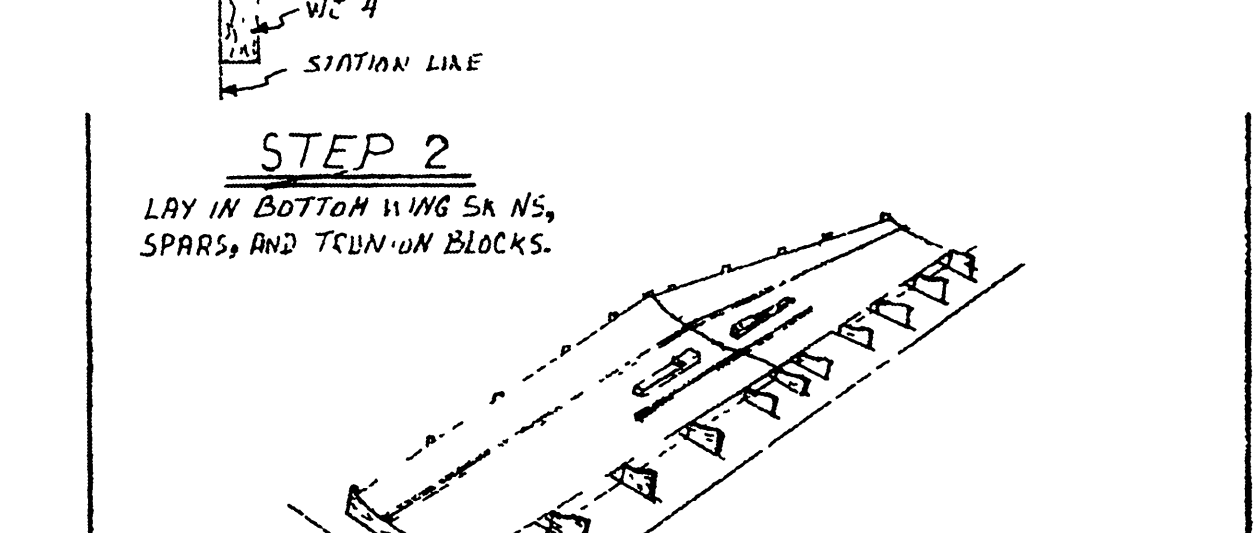
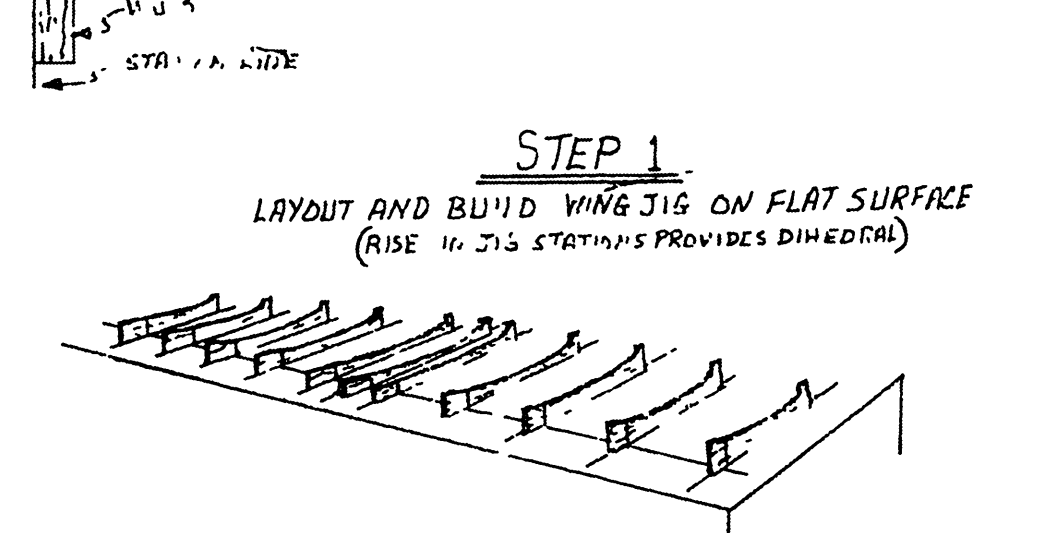
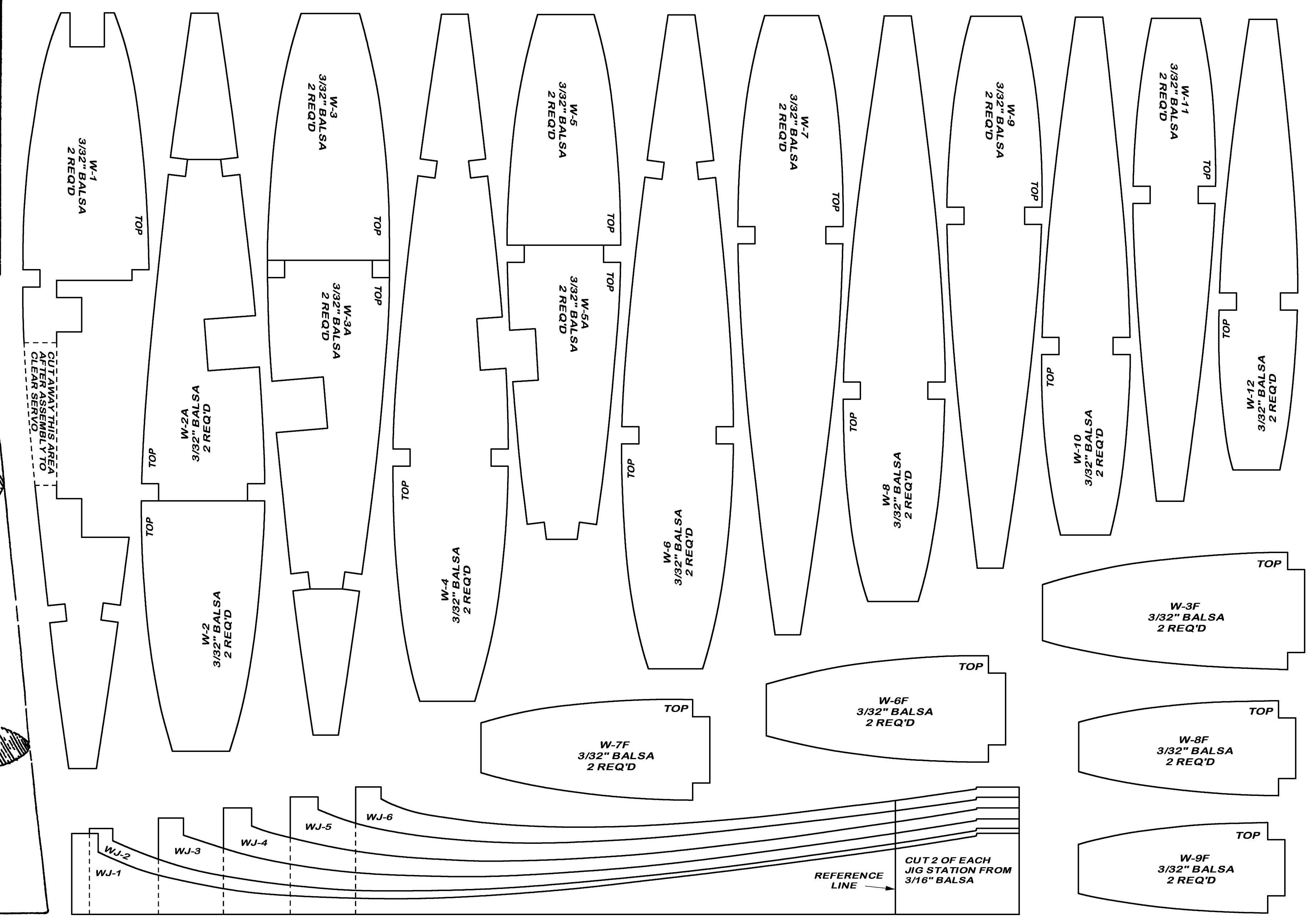
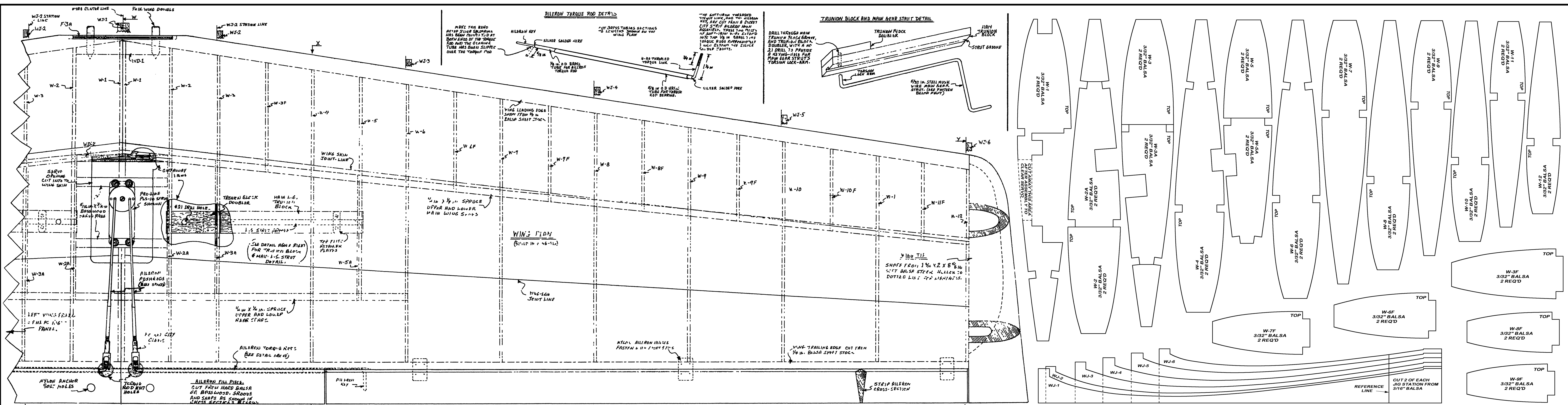
A-6 INTRUDER

A REMOTE LINESHIP OF THE NAVY'S FAMOUS 'ELMER FODD' ELECTRONIC WARRIOR AIRCRAFT. PLATE # I
DESIGNED TO MEET ALL REQUIREMENTS OF BOB AND PAT RICE PRECISION AIRBOTICS COMPETITION. FUSELAGE

WING SPAN	62 1/4 INCHES
WING AREA	65 1/4 SQUARE INCHES
OVERALL LENGTH	51 1/2 INCHES
APPROX. WEIGHT LIMITS	5 3/4 TO 7 POUNDS
ENGINE RECOMMENDATIONS	.56 TO .61 CUB. IN. DISP.
RADIO-CONTROL REQUIREMENTS (MINIMUM)	4 CHANNEL, CLOSED-LOOP, PROPORTIONAL

DESIGNED AND DRAWN BY JIM KIRKLAND - OCTOBER 1969 - REVISED JUNE 1970.
ALL RIGHTS RESERVED BY THE DESIGNER UNTIL RELINQUISHED BY CONTRACT.

Jim Kirkland



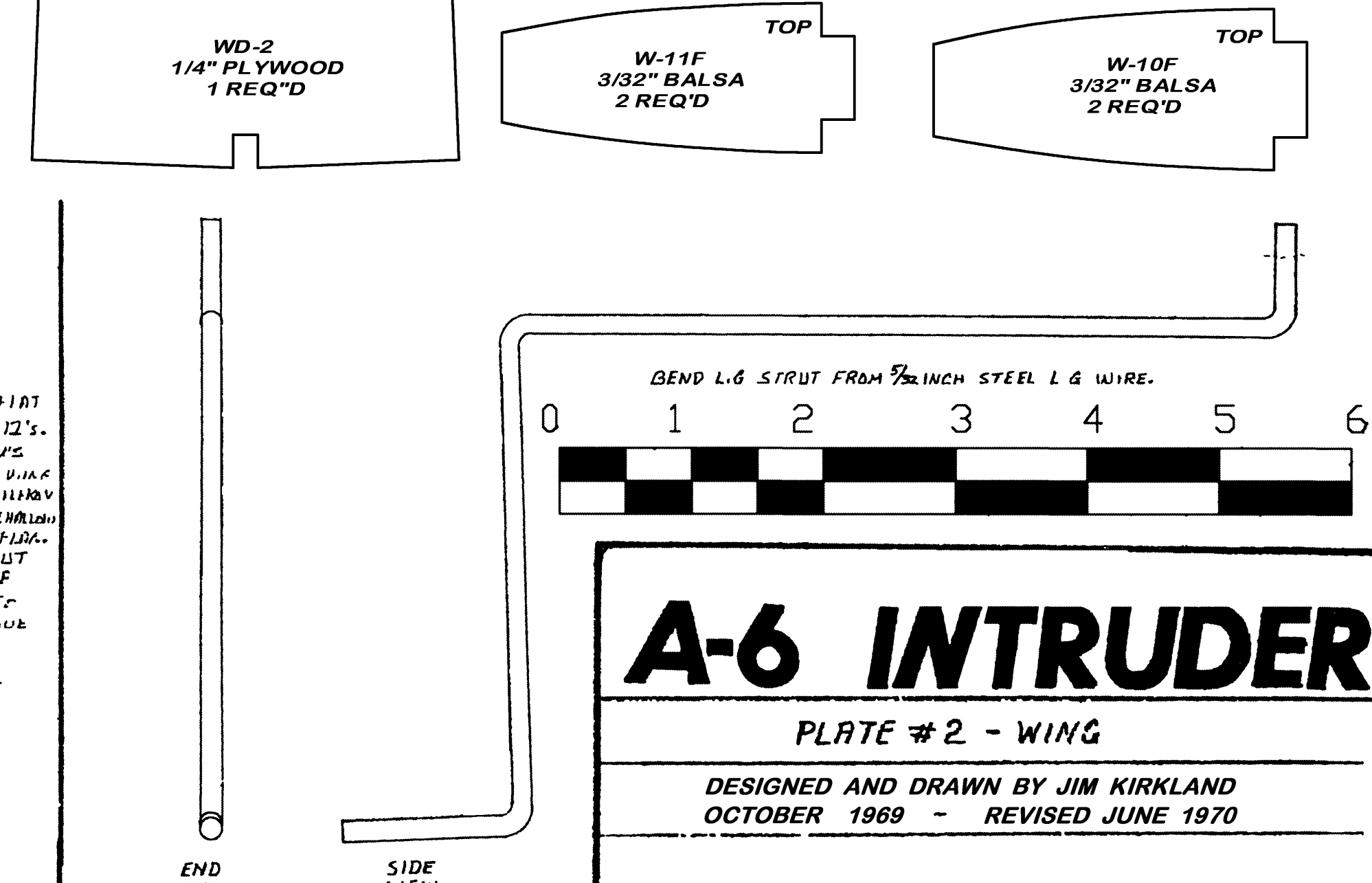
STEP 1 DETAILS: ① SELECT A FLAT WORK SURFACE AT LEAST 1/4" WIDE AND 60" LONG. TRY OUT A 60" REFERENCE LINE 2" FROM THE EDGE YOU WILL BE WORKING FROM. ② USE WING PLAN TO LAY OUT STATION LINES PERPENDICULAR TO THE LONG REFERENCE LINE. ③ GLUE THE WING JIG STATIONS, W-1 THROUGH W-6 TO THIS LAYOUT. MAKE SURE THE REFERENCE LINE ON EACH JIG STATION IS EXACTLY OVER THE 60" REFERENCE LINE ON THE WORK SURFACE, WITH RESPECT TO THE WING CENTERLINE. EACH JIG STATION IS POSITIONED ADJACENT TO, BUT TO THE OUTSIDE OF, ITS STATION LINE.

STEP 2 DETAILS: ① THE WING SKINS ARE MADE OF 1/4" Balsa SHEET. THE JOINT LINES SHOWN ON THE WING PLAN ARE PROPER ONLY WHEN BUILDING WING SKINS 1/4" WIDE STOCK. ANY SIZE STOCK MAY BE USED, BUT STITCH OF ALL WING PIECES IS TO BE PARALLEL TO THE LEADING AND TRAILING EDGES OF THE WING. ② JOIN THE SKINS TO APPROXIMATELY 1/8" FROM THE WING PLAN. USE WING PLAN AND A SQUARE TO TRANSFER RIB LOCATIONS TO A RIGHT AND LEFT WING SKIN. ③ COVER W-3 AREA OF WING JIG WITH A PIECE OF WAXED PAPER. ④ LINE THE TRAILING EDGE OF THE WING SKINS UP WITH THE REFERENCE LINES ON THE STATIONS AND JOIN THE ENDS TO MAKE AT THE WING CENTERLINE HAVE A SLIGHT OVERLAP BY W-6, AND THE FRONT 1/4" LUSH-ACROSS THE TOP OF THE FRONT OF EACH JIG STATION ON THE SKINS WITH THE JIG. GLUE THE SKINS TOGETHER AT THE CENTERLINE. ⑤ USE W-1, W-2, W-3, W-4, W-5, AND A STRAIGHT EDGE TO LOCATE THE FRONT AND REAR SPARS AND THE TRUNION BLOCKS ON THE SKINS AND GLUE THESE PIECES IN THEIR PROPER POSITIONS ON TOP OF THESE SKINS. ⑥ PUSH A PLYWOOD WING TOP-EDGE THE NO. 21 DRILL HOLE IN THE TRUNION BLOCK, AND FORCE IT THROUGH THE WING SKINS. THIS HOLE IN THE SKINS WILL BE USED LATER TO VERIFY THE TRUNION BLOCK IS PROPERLY POSITIONED.

STEP 3 DETAILS: ① GLUE THE PLYWOOD PIECES W-2A, W-3A AND W-5A TO THEIR RESPECTIVE WING RIBS. ② GLUE W-1'S TOGETHER AND IN PLACE ON THE SKINS. ③ GLUE W-2'S IN PLACE. ④ GLUE W-2'S W-1'S AND THE BASS WOOD SERVO HOLES IN PLACE. ⑤ GLUE THE REMAINING MAIN RIB STATIONS W-3 THROUGH W-10, IN PLACE ON EACH WING PANEL. ⑥ SHAPE THE 2 LEADING EDGE PIECES AND GLUE IN PLACE. ⑦ GLUE THE TRAILING EDGE PIECES AND GLUE IN PLACE. ⑧ GLUE IN THE TOP SPARS. ⑨ SHAPE THE TRAILING EDGE PIECES AND GLUE INTO PLACE. LET THIS ASSEMBLY SET THROUGHLY CURED BEFORE PROCEEDING TO STEP 4.

STEP 4 DETAILS: ① SAND THE TOP OF LEADING AND TRAILING EDGES TO PROPER ANGLES AND FLUSH WITH TOP OF WING RIBS. ② THE TOP WING SKINS MAY BE GLUED ON AS ONE PIECE UNITS, OR IN SECTIONS AS THE DOUBLER PRELAYS LET THE WING REMAIN POWDERED INTO THE WING JIG AT LEAST 48 HOURS BEFORE PROCEEDING TO STEP 5.

STEP 5 DETAILS: ① SAND TIPS OF COMPLETED WING PANELS WITH A FINE FACED SANDING BLOCK UNTIL SKINS AND SPARS ARE FLUSH WITH W-12'S. ② TAKE GLUE WING TIPS AND AILERON FILL PIECES INTO RESPECTIVE WHEN DONE, SAND BLUNT WING TIPS TO FINISH SHAPE. ③ REMOVE WING TIPS-AILERON CUT AND RIBS IN LINE PERMANENTLY. ④ REMOVE AILERON FILL PIECES, CUT GRINDERS AND EXT. HAIR FOR TORQUE R/L'S. CUT AILERON DRIVE THIS THE MAIN TRUNION BLOCK STOCK AS SHOWN ON THE WING PLAN. ⑤ FROM THE MAIN TORQUE RODS BUSHING TUBES INTO THE BUSHING CUT INTO THE AILERON FILL PIECES. ⑥ USE W-11 TUBE SHEATH LF FLUSH WITH OUTER END OF FILL PIECE. ⑦ EPAXY THIS ASSEMBLY TO TRUNION BLOCK. ⑧ USE ALL ENDS OF WING PLAN FROM TORQUE ROD-BUSHING TUBE END, WITH HELICOPTER TYPE JIG. ⑨ NOTES: APPLYING LIGHT COAT OF CLEAR COAT TO THE TORQUE RODS WILL HELP THEM STICK TO THE TORQUE R/L'S.



WING CONSTRUCTION DETAILS

A-6 INTRUDER
 PLATE #2 - WING
 DESIGNED AND DRAWN BY JIM KIRKLAND
 OCTOBER 1968 - REVISED JUNE 1970

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Jim Kirkland