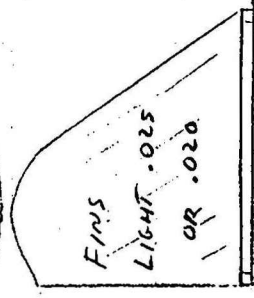
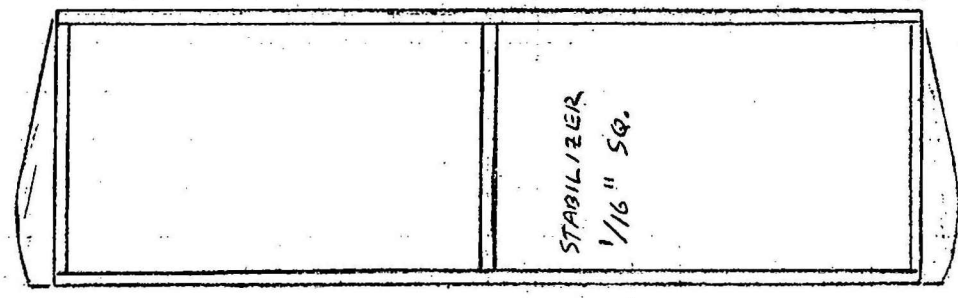
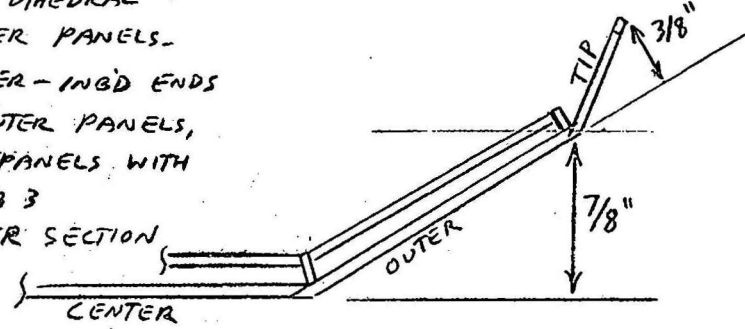


BUILD TIPS WITH $3/8$ " DIHEDRAL
 RELATIVE TO THE OUTER PANELS.
 THEN BEVEL THE LOWER-INGD ENDS
 OF L.E. & T.E. OF OUTER PANELS,
 AND MOUNT OUTER PANELS WITH
 $7/8$ " DIHEDRAL AT RIB 3
 WHEN BUILDING CENTER SECTION

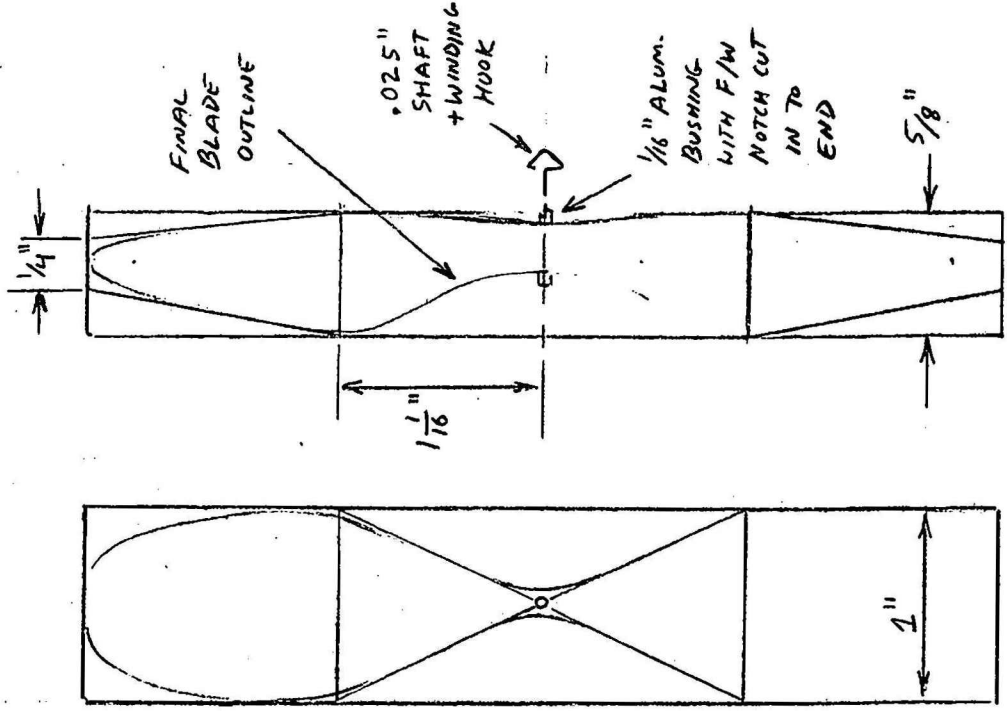


↑
 FINS TILTED
 OUTWARD
 ~ $3/16$ " EA. SIDE

MOUNT STABILIZER WITH
 R. TIP ~ $1/4$ " HIGH FOR
 R-TURN

OPEN FOR
 RUBBER
 ACCESS

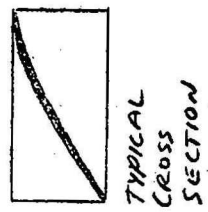
9/16 wide
 13/16 wide
 PHILMONT PHLIER
 DAVID ARONSTEIN
 AUGUST 2012
 SHEET 1 OF 2



CARVE PROP FROM 5/8" x 1" x 4 3/4"

CONSTRUCTION NOTES

LIGHT WOOD, STRONG JOINTS.
 COVER WING + STAB TOP + BOTTOM
 DO NOT SHRINK OR DOPE.
 TO SAVE WEIGHT, DO NOT
 COVER FINS OR FUSELAGE SIDES.
 ADHERE TISSUE TO UNDERSIDE OF
 WING RIBS FOR UNDERCAMBER.



TYPICAL
CROSS
SECTION

TRIMMING NOTES

LOTS DOWNTHRUST (MINE HAS ~12°)
 LITTLE BIT R. THRUST (1° OR 2°)
 STABILIZER TILT (R. TIP HIGH)
 BEND IN SOME R. RUDDER
 SOME NOSEWEIGHT
 RIGHT CLIMB, RIGHT GLIDE.
 (TIGHT GLIDE CIRCLES)
 WITH 7.5" LOOP .069 RUBBER,
 CLIMB IS SPECTACULAR,
 HAVE TO BACK OFF A FEW TURNS
 TO AVOID BARREL ROLLS.
 10" LOOP .060" FOR LONGER RUN.

DESIGNED + BUILT ON THE TRAIL
 DURING 10-DAY BACKPACKING
 TRIP AT PHILMONT SCOUT RANCH
 WITH MY SON JESSE & OTHER
 SCOUTS + PARENTS FROM OUR TROOP.

PHILMONT PHILIER 7.5" SPAN INDOOR/OUTDOOR SPORT MODEL
 DAVID ARONSTEIN
 SH. 2 OF 2

PHILMONT SCOUT RANCH, PHILMONT, COLORADO, 1964