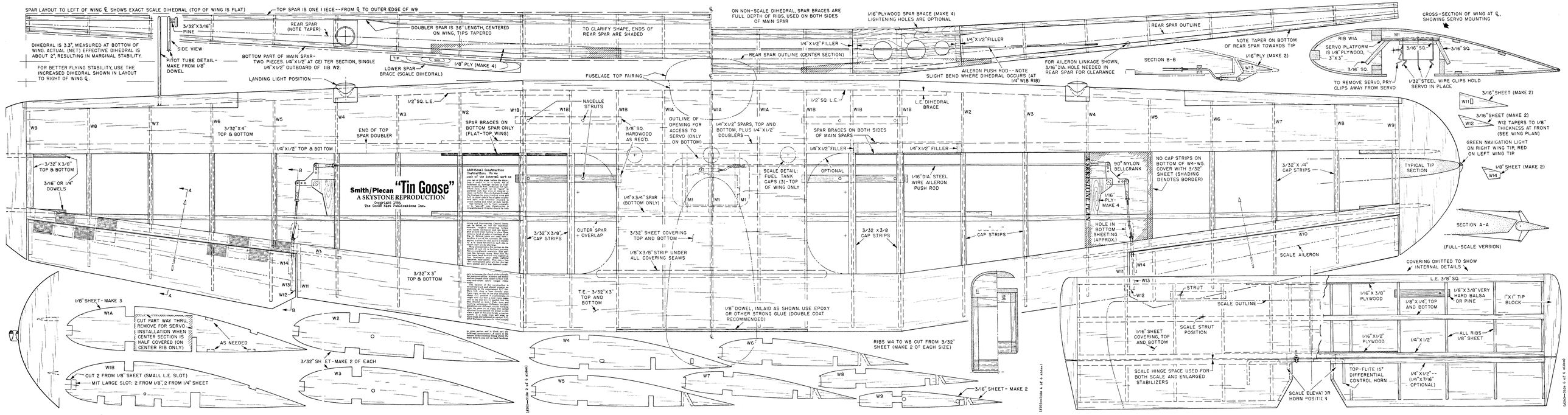
SPAR LAYOUT TO LEFT OF WING ℄ SHOWS EXACT SCALE DIHEDRAL (TOP OF WING IS FLAT)
TOP SPAR IS ONE PIECE--FROM ℄ TO OUTER EDGE OF W9
DIHEDRAL IS 3.3°, MEASURED AT BOTTOM OF WING. ACTUAL (NET) EFFECTIVE DIHEDRAL IS ABOUT 2°, RESULTING IN MARGINAL STABILITY.
FOR BETTER FLYING STABILITY, USE THE INCREASED DIHEDRAL SHOWN IN LAYOUT TO RIGHT OF WING ℄.
3/32"X3/16" PINE
SIDE VIEW
PITOT TUBE DETAIL-MAKE FROM 1/8" DOWEL
REAR SPAR (NOTE TAPER)
BOTTOM PART OF MAIN SPAR-TWO PIECES. 1/4"X1/2" AT CENTER SECTION, SINGLE 1/4"X1/2" OUTBOARD OF W8 W2.
DOUBLER SPAR IS 36" LENGTH, CENTERED ON WING, TIPS TAPERED
TO CLARIFY SHAPE, ENDS OF REAR SPAR ARE SHADED
TIP
1/8" PLY (MAKE 4)
LOWER SPAR-BRACE (SCALE DIHEDRAL)
LANDING LIGHT POSITION
FUSELAGE TOP FAIRING
ON NON-SCALE DIHEDRAL, SPAR BRACES ARE FULL DEPTH OF RIBS, USED ON BOTH SIDES OF MAIN SPAR
1/16" PLYWOOD SPAR BRACE (MAKE 4) LIGHTENING HOLES ARE OPTIONAL
1/4"X1/2" FILLER
REAR SPAR OUTLINE (CENTER SECTION)
AILERON PUSH ROD--NOTE SLIGHT BEND WHERE DIHEDRAL OCCURS (AT 1/4" W1B RIB)
REAR SPAR OUTLINE
NOTE TAPER ON BOTTOM OF REAR SPAR TOWARDS TIP
1/16" PLY (MAKE 2)
SECTION B-B
W13
FOR AILERON LINKAGE SHOWN, 3/16" DIA. HOLE NEEDED IN REAR SPAR FOR CLEARANCE
CROSS-SECTION OF WING AT ℄, SHOWING SERVO MOUNTING
RIB W1A
SERVO PLATFORM IS 1/8" PLYWOOD, 3"X3"
M1
3/16" SQ.
TO REMOVE SERVO, PRY CLIPS AWAY FROM SERVO
1/32" STEEL WIRE CLIPS HOLD SERVO IN PLACE
1/2" SQ. L.E.
NACELLE STRUTS
W1B
W1A
3/8" SQ. HARDWOOD AS REQ'D.
OUTLINE OF OPENING FOR ACCESS TO SERVO (ONLY ON BOTTOM)
1/4"X1/2" SPARS, TOP AND BOTTOM, PLUS 1/4"X1/2" DOUBLERS
L.E. DIHEDRAL BRACE
SPAR BRACES ON BOTH SIDES OF MAIN SPARS
1/4"X1/2" FILLER
OPTIONAL
SCALE DETAIL: FUEL TANK CAPS (3)-TOP OF WING ONLY
1/16" DIA. STEEL WIRE AILERON PUSH ROD
W9
W8
W7
W6
W5
W4
W3
W2
3/32"X4" TOP & BOTTOM
END OF TOP SPAR DOUBLER
SPAR BRACES ON BOTTOM SPAR ONLY (FLAT-TOP WING)
1/4"X1/2" TOP & BOTTOM
3/32"X3/8" TOP & BOTTOM
3/16" OR 1/4" DOWELS
A
B
Smith/Plecan "Tin Goose"
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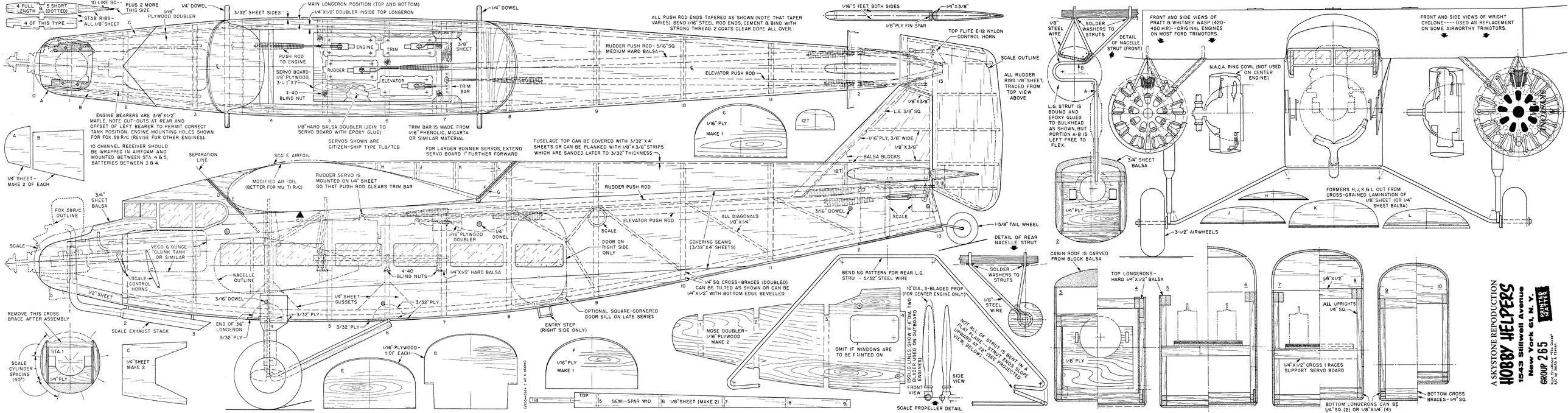
Additional Construction Instruction: Do as much of the internal work as you can at this stage before the skin is applied. Glue and nail the ribs, followed by longer spars in 1/4" thick areas, using 1/4" x 1/4" dowels where shown, which can be "sacrificial" or left in place. Use 1/4" x 1/4" dowels in ribs. Dowels must go through ribs and spars, and be glued in place. Cut 1/4" x 1/4" plywood for all wood angles, and glue in place. Use plywood for all wood flatter and wear on gear legs. Use 1/4" x 1/4" dowels in place of wood angles in "sacrificial" areas. Construction is complete and ready to fly. Enjoy!
Glue and fire-proofing Control Horns and Servo Platform in place. Install servos, complete control system, and check for proper operation. Install wing and stabilizer in place. Glue wing and stabilizer in place. Glue the 3/16" dowels into place. Glue the 1/4" dowels into place. Install the 1/4" x 3/4" spar in the wing. Install the 1/4" x 1/4" spar in the stabilizer. Install the 1/4" x 1/4" spar in the fin. Install the 1/4" x 1/4" spar in the rudder. Install the 1/4" x 1/4" spar in the elevator. Install the 1/4" x 1/4" spar in the aileron. Install the 1/4" x 1/4" spar in the landing gear. Install the 1/4" x 1/4" spar in the tail wheel. Install the 1/4" x 1/4" spar in the tail wheel. Install the 1/4" x 1/4" spar in the tail wheel



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GROUP 265
BOUNTER MATTER
Vol. 3 Series 1 Plan 1