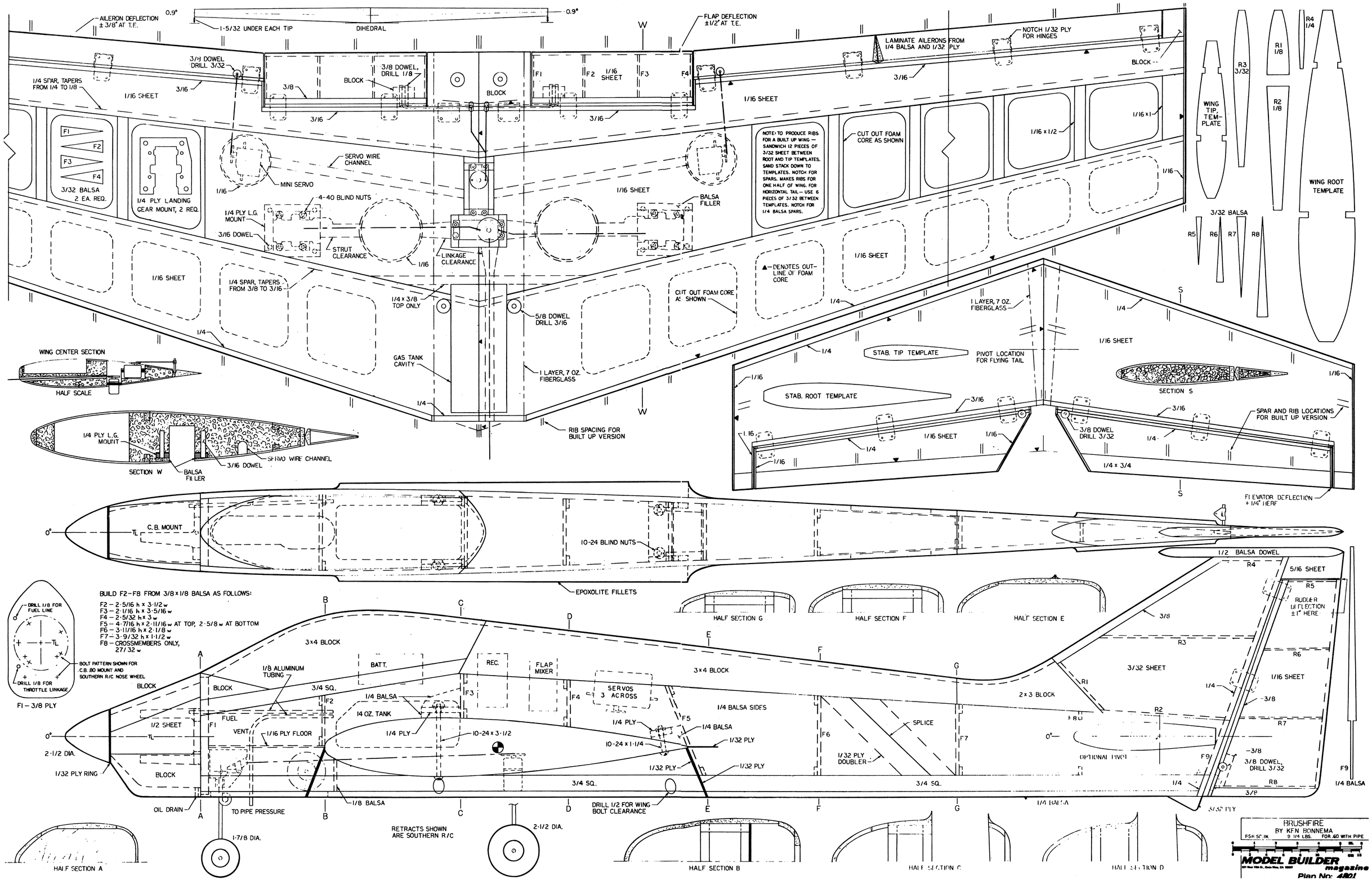
AILERON DEFLECTION ± 3/8" AT T.E.
0.9°
1-5/32 UNDER EACH TIP
DIHEDRAL
0.9°
FLAP DEFLECTION ±1/2" AT T.E.
LAMINATE AILERONS FROM 1/4 BALSA AND 1/32 PLY
NOTCH 1/32 PLY FOR HINGES
BLOCK
3/8 DOWEL DRILL 3/32
3/8 DOWEL, DRILL 1/8
BLOCK
1/4 SPAR, TAPERS FROM 1/4 TO 1/8
1/16 SHEET
3/16
3/8
BLOCK
F1
F2
1/16 SHEET
F3
F4
1/16 SHEET
3/16
3/16
F1
F2
F3
F4
3/32 BALSA 2 EA. REQ.
1/4 PLY LANDING GEAR MOUNT, 2 REQ.
SERVO WIRE CHANNEL
MINI SERVO
1/16
4-40 BLIND NUTS
1/4 PLY L.G. MOUNT
3/16 DOWEL
STRUT CLEARANCE
1/16
LINKAGE CLEARANCE
1/16 SHEET
BALSA FILLER
NOTE: TO PRODUCE RIBS FOR A BUILT UP WING — SANDWICH 12 PIECES OF 3/32 SHEET BETWEEN ROOT AND TIP TEMPLATES. SAND STACK DOWN TO TEMPLATES. NOTCH FOR SPARS. MAKES RIBS FOR ONE HALF OF WING. FOR HORIZONTAL TAIL — USE 6 PIECES OF 3/32 BETWEEN TEMPLATES. NOTCH FOR 1/4 BALSA SPARS.
CUT OUT FOAM CORE AS SHOWN
1/16 x 1/2
1/16 x 1
1/16
1/16 SHEET
1/4 SPAR, TAPERS FROM 3/8 TO 3/16
1/4 x 3/8 TOP ONLY
5/8 DOWEL DRILL 3/16
CUT OUT FOAM CORE AS SHOWN
▲—DENOTES OUTLINE OF FOAM CORE
1/16 SHEET
1/4
1/4
GAS TANK CAVITY
1 LAYER, 7 OZ. FIBERGLASS
1/4
RIB SPACING FOR BUILT UP VERSION
WING CENTER SECTION
HALF SCALE
1/4 PLY L.G. MOUNT
3/16 DOWEL
SERVO WIRE CHANNEL
SECTION W
BALSA FILLER
1 LAYER, 7 OZ. FIBERGLASS
1/4
STAB. TIP TEMPLATE
PIVOT LOCATION FOR FLYING TAIL
1/16 SHEET
1/16
STAB. ROOT TEMPLATE
3/16
1/16
1/16 SHEET
1/16
1/4
1/16
3/16
3/8 DOWEL DRILL 3/32
1/4
1/4 x 3/4
SECTION S
SPAR AND RIB LOCATIONS FOR BUILT UP VERSION
ELEVATOR DEFLECTION ± 1/4" HERE
WING TIP TEMPLATE
R3 3/32
R1 1/8
R4 1/4
R2 1/8
WING ROOT TEMPLATE
3/32 BALSA
R5
R6
R7
R8
0°
C.B. MOUNT
10-24 BLIND NUTS
EPOXOLITE FILLETS
1/2 BALSA DOWEL
R4
5/16 SHEET
R5
RUDDER DEFLECTION ±1" HERE
DRILL 1/8 FOR FUEL LINE
BOLT PATTERN SHOWN FOR C.B. 80 MOUNT AND SOUTHERN R/C NOSE WHEEL
DRILL 1/8 FOR THROTTLE LINKAGE
F1 — 3/8 PLY
BUILD F2–F8 FROM 3/8 x 1/8 BALSA AS FOLLOWS:
F2 — 2-5/16 h x 3-1/2 w
F3 — 2-1/16 h x 3-5/16 w
F4 — 2-5/32 h x 3 w
F5 — 4-7/16 h x 2-11/16 w AT TOP, 2-5/8 w AT BOTTOM
F6 — 3-11/16 h x 2-1/8 w
F7 — 3-9/32 h x 1-1/2 w
F8 — CROSSMEMBERS ONLY, 27/32 w
HALF SECTION G
HALF SECTION F
HALF SECTION E
3/8
R3
R6
3/32 SHEET
1/16 SHEET
1/4
3/8
3×4 BLOCK
BLOCK
1/8 ALUMINUM TUBING
BATT.
REC.
FLAP MIXER
3×4 BLOCK
3/4 SQ.
F2
1/4 BALSA
F3
F4
SERVOS 3 ACROSS
1/4 BALSA SIDES
2×3 BLOCK
R1
R2
R7
1/2 SHEET
F1
FUEL
14 OZ. TANK
F5
1/4 PLY
1/4 BALSA
SPLICE
F8
0°
VENT
1/16 PLY FLOOR
1/4 PLY
10-24 x 3-1/2
10-24 x 1-1/4
1/32 PLY
F6
F7
2-1/2 DIA.
1/32 PLY RING
BLOCK
1/32 PLY
1/32 PLY
1/32 PLY DOUBLER
OPTIONAL PIPE
F9
3/8
3/8 DOWEL, DRILL 3/32
F9
1/4 BALSA
3/4 SQ.
3/4 SQ.
1/4
R8
3/8
OIL DRAIN
TO PIPE PRESSURE
1/8 BALSA
DRILL 1/2 FOR WING BOLT CLEARANCE
1/4 BALSA
3/32 PLY
1-7/8 DIA.
RETRACTS SHOWN ARE SOUTHERN R/C
2-1/2 DIA.
HALF SECTION A
HALF SECTION B
HALF SECTION C
HALF SECTION D
BRUSHFIRE
BY KEN BONNEMA
658 SQ. IN.
9 1/4 LBS.
FOR .60 WITH PIPE
MODEL BUILDER magazine
Plan No: 4801