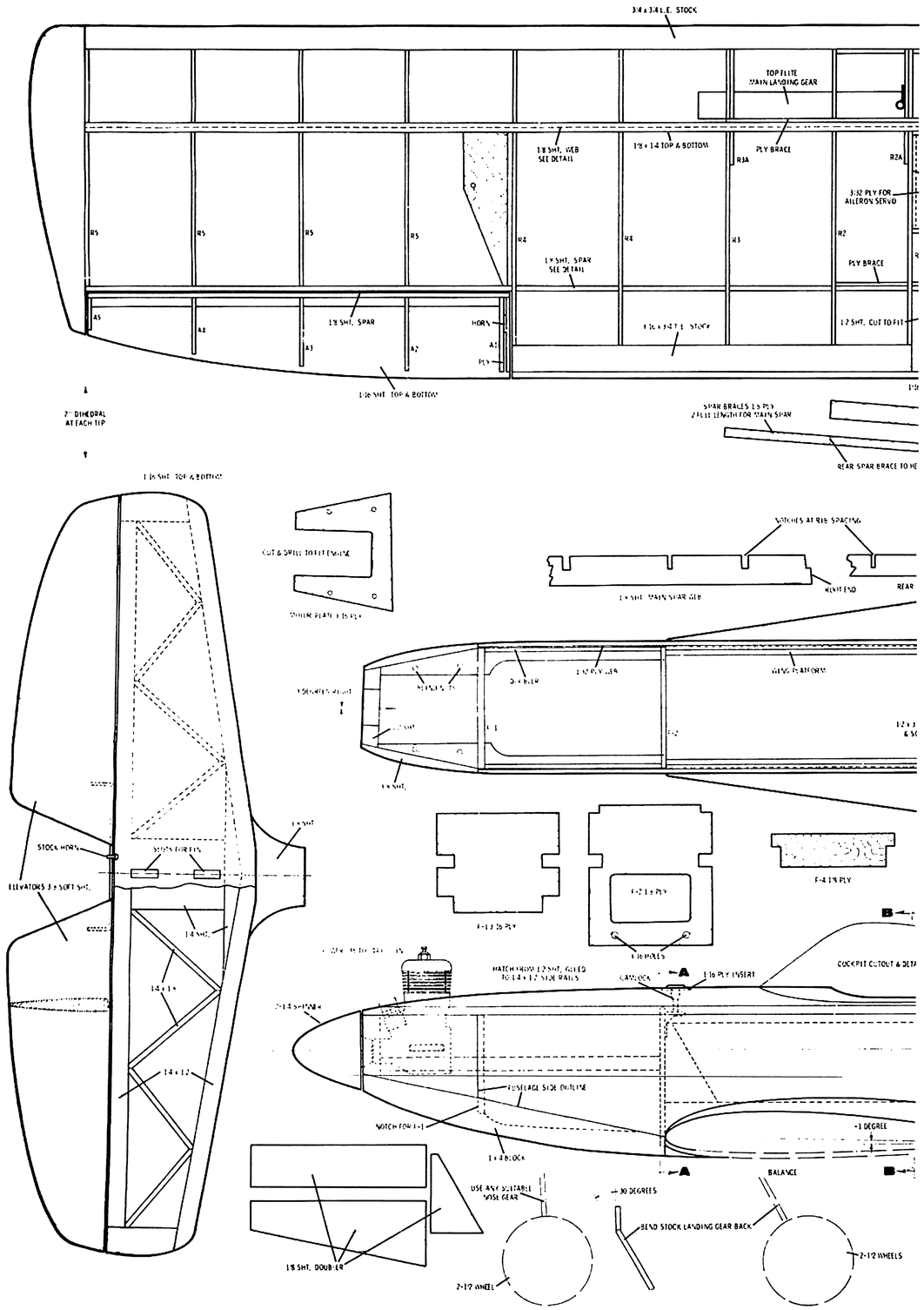
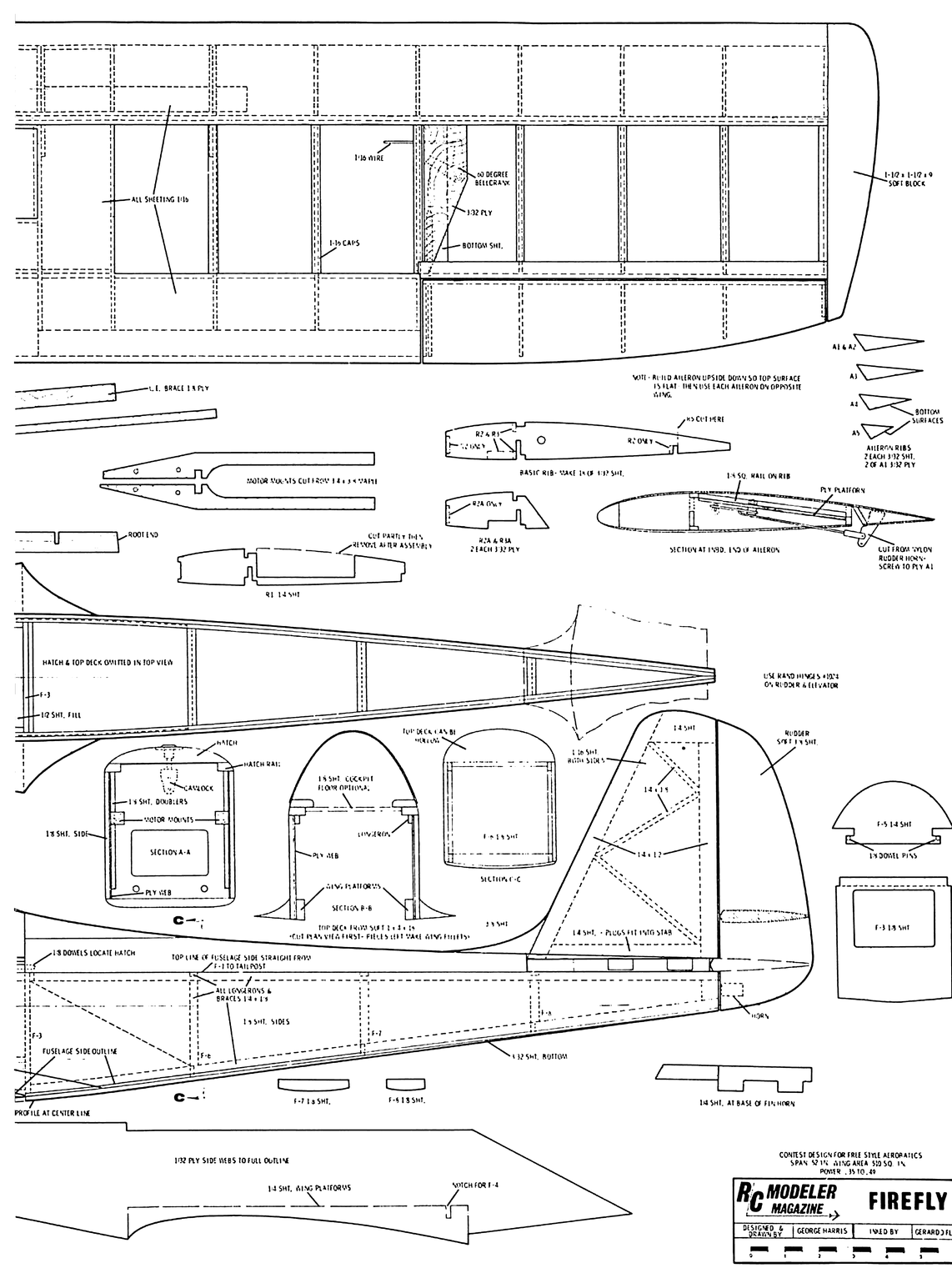
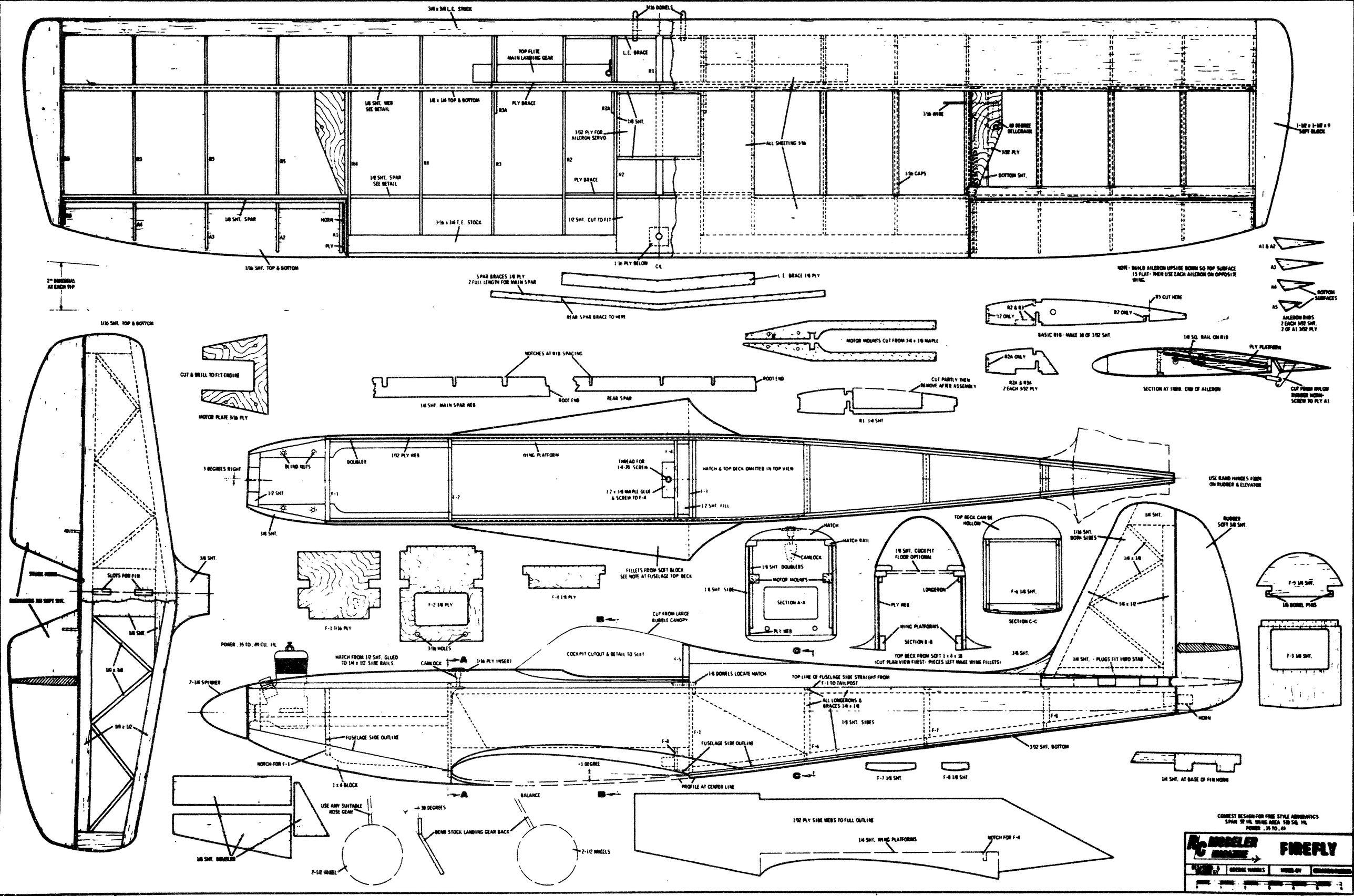




CONTEST DESIGN FOR FREE STYLE AEROBATICS
SPAN 52 1/4 WING AREA 510 SQ. IN.
POWER .35 TO .40

RC MODELER MAGAZINE	FIREFLY		
DESIGNED & DRAWN BY	GEORGE HARRIS	INKED BY	GERARD J FLORES


3/4 x 3/4 L.E. STOCK
3/16 DOWELS
TOP FLITE MAIN LANDING GEAR
L.E. BRACE
R1
1/8 SHT. WEB SEE DETAIL
1/8 x 1/8 TOP & BOTTOM
PLY BRACE
R3A
R2A
1/4 SHT.
3/32 PLY FOR AILERON SERVO
R5
R4
R3
R2
R7
1/8 SHT. SPAR SEE DETAIL
PLY BRACE
ALL SHEETING 1/16
1/16 WIRE
40 REQUIRE BELLCRANK
3/32 PLY
BOTTOM SHT.
1/16 CAPS
1-1/2 x 1-1/2 x 9 SOFT BLOCK
1/8 SHT. SPAR
HORN
A4
A3
A2
A1
PLY
3/16 x 3/4 T.E. STOCK
1/2 SHT. CUT TO FIT
1/16 SHT. TOP & BOTTOM
1/16 PLY BELOW
CA
2" DIHEDRAL AT EACH TIP
SPAR BRACES 1/8 PLY 2 FULL LENGTH FOR MAIN SPAR
L.E. BRACE 1/8 PLY
REAR SPAR BRACE TO HERE
NOTE - BUILD AILERON UPSIDE DOWN SO TOP SURFACE IS FLAT - THEN USE EACH AILERON ON OPPOSITE WING.
A1 & A2
A3
A4
A5
BOTTOM SURFACES
AILERON RIBS 2 EACH 3/32 SHT. 2 OF A1 3/32 PLY
R5 CUT HERE
R2 & R3 12 ONLY
R2 ONLY
BASIC RIB - MAKE 18 OF 3/32 SHT.
1/16 SHT. TOP & BOTTOM
CUT & DRILL TO FIT ENGINE
MOTOR PLATE 3/16 PLY
NOTCHES AT RIB SPACING
1/8 SHT. MAIN SPAR WEB
ROOT END
REAR SPAR
MOTOR MOUNTS CUT FROM 3/4 x 3/4 MAPLE
CUT PARTLY THEN REMOVE AFTER ASSEMBLY
R1 1/4 SHT
R2A ONLY
R2A & R3A 2 EACH 3/32 PLY
1/8 SQ. BAL ON RIB
PLY PLATFORM
SECTION AT 1/3RD. END OF AILERON
CUT FROM NYLON RUBBER HORN- SCREW TO PLY A1
3 DEGREES RIGHT
BLIND NUTS
DOUBLER
1/32 PLY WEB
WING PLATFORM
THREAD FOR 1-4-20 SCREW
1/2 x 1/8 MAPLE GLUE & SCREW TO F-4
HATCH & TOP DECK OMITTED IN TOP VIEW
1/2 SHT FILL
1/2 SHT
3/8 SHT.
USE RAND HINGES #1004 ON RUDDER & ELEVATOR
3/8 SHT.
SLOTS FOR FIN
1/8 SHT.
1/8 x 1/8
1/8 x 1/2
F-1 3/16 PLY
F-2 1/8 PLY
3/16 HOLES
F-4 1/8 PLY
FILLETS FROM SOFT BLOCK SEE NOTE AT FUSELAGE TOP DECK
HATCH
HATCH RAIL
CAMLOCK
1/8 SHT DOUBLERS
MOTOR MOUNTS
1/8 SHT SIDE
SECTION A-A
PLY WEB
1/8 SHT. COCKPIT FLOOR OPTIONAL
LONGERON
WING PLATFORMS
SECTION B-B
TOP DECK CAN BE HOLLOW
F-6 1/8 SHT.
SECTION C-C
1/16 SHT. BOTH SIDES
1/8 SHT.
1/8 x 1/8
1/8 x 1/2
RUBBER SOFT 3/8 SHT.
F-5 1/8 SHT.
1/8 DOWEL PINS
F-3 1/8 SHT.
CUT FROM LARGE BUBBLE CANOPY
POWER .35 TO .40 CU. IN.
HATCH FROM 1/2 SHT. GLUED TO 1/4 x 1/2 SIDE RAILS
CAMLOCK
1/16 PLY INSERT
COCKPIT CUTOUT & DETAIL TO SUIT
1/8 DOWELS LOCATE HATCH
TOP LINE OF FUSELAGE SIDE STRAIGHT FROM F-1 TO TAILPOST
ALL LONGERONS & BRACES 1/4 x 1/8
TOP DECK FROM SOFT 1 x 4 x 18 (CUT PLAN VIEW FIRST- PIECES LEFT MAKE WING FILLETS)
1/4 SHT. - PLUGS FIT INTO STAB
2-1/4 SPINNER
1/8 SHT. SIDES
HORN
FUSELAGE SIDE OUTLINE
NOTCH FOR F-1
1 x 4 BLOCK
+1 DEGREE
PROFILE AT CENTER LINE
3/32 SHT. BOTTOM
F-7 1/8 SHT.
F-8 1/8 SHT.
1/4 SHT. AT BASE OF FIN HORN
BALANCE
USE ANY SUITABLE NOSE GEAR
30 DEGREES
BEND STOCK LANDING GEAR BACK
2-1/2 WHEELS
2-1/2 WHEEL
1/8 SHT. DOUBLER
1/32 PLY SIDE WEBS TO FULL OUTLINE
1/4 SHT. WING PLATFORMS
NOTCH FOR F-4
CONTEST DESIGN FOR FREE STYLE AEROBATICS
SPAN 52 IN. WING AREA 510 SQ. IN.
POWER .35 TO .40
R/C MODELER MAGAZINE
FIREFLY
DESIGNED BY
GEORGE HARRIS
DRAWN BY