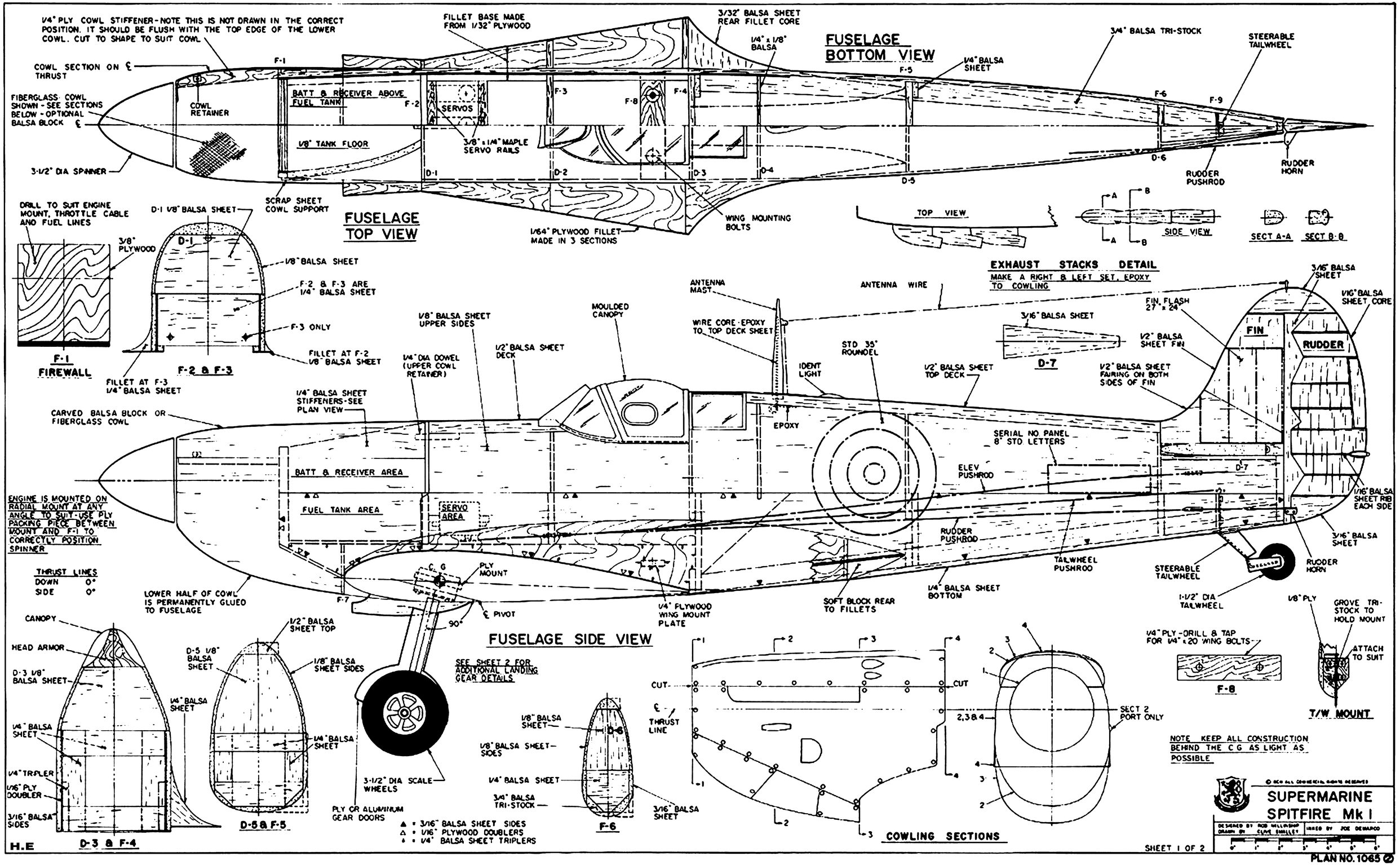
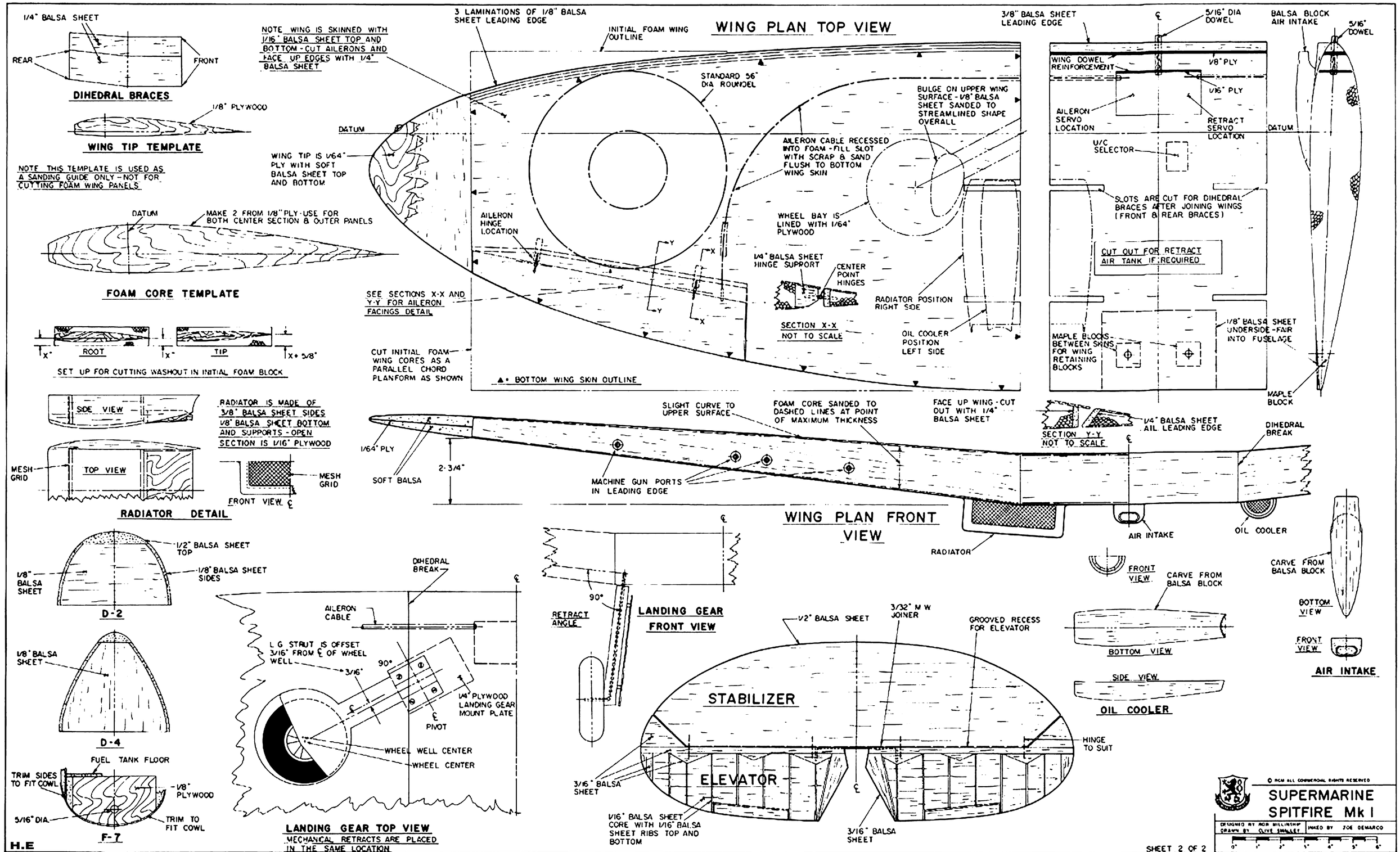

FUSELAGE BOTTOM VIEW
1/4" PLY COWL STIFFENER - NOTE THIS IS NOT DRAWN IN THE CORRECT POSITION. IT SHOULD BE FLUSH WITH THE TOP EDGE OF THE LOWER COWL. CUT TO SHAPE TO SUIT COWL
FILLET BASE MADE FROM 1/32" PLYWOOD
3/32" BALSA SHEET REAR FILLET CORE
1/4" x 1/8" BALSA
1/4" BALSA SHEET
3/4" BALSA TRI-STOCK
STEERABLE TAILWHEEL
COWL SECTION ON ℄ THRUST
FIBERGLASS COWL SHOWN - SEE SECTIONS BELOW - OPTIONAL BALSA BLOCK ℄
COWL RETAINER
BATT & RECEIVER ABOVE FUEL TANK
SERVOS
3/8" x 1/4" MAPLE SERVO RAILS
1/8" TANK FLOOR
3-1/2" DIA SPINNER
SCRAP SHEET COWL SUPPORT
RUDDER PUSHROD
RUDDER HORN
WING MOUNTING BOLTS
1/64" PLYWOOD FILLET MADE IN 3 SECTIONS
F-1 F-2 F-3 F-4 F-5 F-6 F-8 F-9
D-1 D-2 D-3 D-4 D-5 D-6
FUSELAGE TOP VIEW
TOP VIEW
SIDE VIEW
SECT A-A
SECT B-B
DRILL TO SUIT ENGINE MOUNT, THROTTLE CABLE AND FUEL LINES
3/8" PLYWOOD
F-1 FIREWALL
D-1 1/8" BALSA SHEET
1/8" BALSA SHEET
F-2 & F-3 ARE 1/4" BALSA SHEET
F-3 ONLY
FILLET AT F-2 1/8" BALSA SHEET
FILLET AT F-3 1/4" BALSA SHEET
F-2 & F-3
EXHAUST STACKS DETAIL
MAKE A RIGHT & LEFT SET, EPOXY TO COWLING
ANTENNA MAST
ANTENNA WIRE
WIRE CORE - EPOXY TO TOP DECK SHEET
MOULDED CANOPY
1/8" BALSA SHEET UPPER SIDES
1/2" BALSA SHEET DECK
1/4" DIA DOWEL (UPPER COWL RETAINER)
1/4" BALSA SHEET STIFFENERS - SEE PLAN VIEW
CARVED BALSA BLOCK OR FIBERGLASS COWL
IDENT LIGHT
STD 35" ROUNDEL
1/2" BALSA SHEET TOP DECK
3/16" BALSA SHEET
D-7
1/2" BALSA SHEET FIN
FIN FLASH 27 x 24"
1/2" BALSA SHEET FAIRING ON BOTH SIDES OF FIN
3/16" BALSA SHEET
1/16" BALSA SHEET CORE
FIN
RUDDER
EPOXY
SERIAL NO. PANEL 8" STD LETTERS
ELEV PUSHROD
1/16" BALSA SHEET RIB EACH SIDE
3/16" BALSA SHEET
BATT & RECEIVER AREA
FUEL TANK AREA
SERVO AREA
ENGINE IS MOUNTED ON RADIAL MOUNT AT ANY ANGLE TO SUIT - USE PLY PACKING PIECE BETWEEN MOUNT AND F-1 TO CORRECTLY POSITION SPINNER
THRUST LINES
DOWN 0°
SIDE 0°
RUDDER PUSHROD
TAILWHEEL PUSHROD
STEERABLE TAILWHEEL
RUDDER HORN
1/4" BALSA SHEET BOTTOM
1-1/2" DIA TAILWHEEL
SOFT BLOCK REAR TO FILLETS
1/4" PLYWOOD WING MOUNT PLATE
℄ PIVOT
PLY MOUNT
C.G.
90°
LOWER HALF OF COWL IS PERMANENTLY GLUED TO FUSELAGE
F-7
FUSELAGE SIDE VIEW
SEE SHEET 2 FOR ADDITIONAL LANDING GEAR DETAILS
3-1/2" DIA SCALE WHEELS
PLY OR ALUMINUM GEAR DOORS
▲ = 3/16" BALSA SHEET SIDES
△ = 1/16" PLYWOOD DOUBLERS
♦ = 1/4" BALSA SHEET TRIPLERS
CANOPY
HEAD ARMOR
D-3 1/8" BALSA SHEET
1/4" BALSA SHEET
1/4" BALSA SHEET
1/4" TRIPLER
1/16" PLY DOUBLER
3/16" BALSA SIDES
D-3 & F-4
1/2" BALSA SHEET TOP
D-5 1/8" BALSA SHEET
1/8" BALSA SHEET SIDES
1/4" BALSA SHEET
1/4" BALSA SHEET
D-5 & F-5
1/8" BALSA SHEET
1/8" BALSA SHEET SIDES
1/4" BALSA SHEET
3/4" BALSA TRI-STOCK
D-6
3/16" BALSA SHEET
F-6
CUT
CUT
℄ THRUST LINE
2,3 & 4
SECT 2 PORT ONLY
COWLING SECTIONS
1/4" PLY - DRILL & TAP FOR 1/4" x 20 WING BOLTS
F-8
1/8" PLY
GROVE TRI-STOCK TO HOLD MOUNT
ATTACH TO SUIT
T/W MOUNT
NOTE KEEP ALL CONSTRUCTION BEHIND THE C G AS LIGHT AS POSSIBLE
H.E
SUPERMARINE SPITFIRE Mk I
DESIGNED BY ROB WILLINSHOP
DRAWN BY CLIVE SMALLEY
INKED BY JOE DEMARCO
SHEET 1 OF 2
PLAN NO. 1065


1/4" BALSA SHEET
REAR
FRONT
DIHEDRAL BRACES
1/8" PLYWOOD
WING TIP TEMPLATE
NOTE THIS TEMPLATE IS USED AS A SANDING GUIDE ONLY - NOT FOR CUTTING FOAM WING PANELS
DATUM
MAKE 2 FROM 1/8" PLY - USE FOR BOTH CENTER SECTION & OUTER PANELS
FOAM CORE TEMPLATE
ROOT
TIP
X"
X+ 5/8"
SET UP FOR CUTTING WASHOUT IN INITIAL FOAM BLOCK
SIDE VIEW
TOP VIEW
MESH GRID
RADIATOR IS MADE OF 3/8" BALSA SHEET SIDES 1/8" BALSA SHEET BOTTOM AND SUPPORTS - OPEN SECTION IS 1/16" PLYWOOD
FRONT VIEW
RADIATOR DETAIL
1/2" BALSA SHEET TOP
1/8" BALSA SHEET
1/8" BALSA SHEET SIDES
D-2
1/8" BALSA SHEET
D-4
FUEL TANK FLOOR
TRIM SIDES TO FIT COWL
1/8" PLYWOOD
5/16" DIA
TRIM TO FIT COWL
F-7
H.E
NOTE WING IS SKINNED WITH 1/16" BALSA SHEET TOP AND BOTTOM - CUT AILERONS AND FACE UP EDGES WITH 1/4" BALSA SHEET
3 LAMINATIONS OF 1/8" BALSA SHEET LEADING EDGE
INITIAL FOAM WING OUTLINE
WING PLAN TOP VIEW
STANDARD 56" DIA ROUNDEL
BULGE ON UPPER WING SURFACE - 1/8" BALSA SHEET SANDED TO STREAMLINED SHAPE OVERALL
WING TIP IS 1/64" PLY WITH SOFT BALSA SHEET TOP AND BOTTOM
AILERON CABLE RECESSED INTO FOAM - FILL SLOT WITH SCRAP & SAND FLUSH TO BOTTOM WING SKIN
AILERON HINGE LOCATION
WHEEL BAY IS LINED WITH 1/64" PLYWOOD
1/4" BALSA SHEET HINGE SUPPORT
CENTER POINT HINGES
SEE SECTIONS X-X AND Y-Y FOR AILERON FACINGS DETAIL
SECTION X-X NOT TO SCALE
RADIATOR POSITION RIGHT SIDE
OIL COOLER POSITION LEFT SIDE
CUT INITIAL FOAM WING CORES AS A PARALLEL CHORD PLANFORM AS SHOWN
BOTTOM WING SKIN OUTLINE
3/8" BALSA SHEET LEADING EDGE
5/16" DIA DOWEL
BALSA BLOCK AIR INTAKE
5/16" DOWEL
WING DOWEL REINFORCEMENT
1/8" PLY
1/16" PLY
AILERON SERVO LOCATION
RETRACT SERVO LOCATION
U/C SELECTOR
SLOTS ARE CUT FOR DIHEDRAL BRACES AFTER JOINING WINGS (FRONT & REAR BRACES)
CUT OUT FOR RETRACT AIR TANK IF REQUIRED
MAPLE BLOCKS BETWEEN SKINS FOR WING RETAINING BLOCKS
1/8" BALSA SHEET UNDERSIDE - FAIR INTO FUSELAGE
MAPLE BLOCK
SLIGHT CURVE TO UPPER SURFACE
FOAM CORE SANDED TO DASHED LINES AT POINT OF MAXIMUM THICKNESS
FACE UP WING - CUT OUT WITH 1/4" BALSA SHEET
1/64" PLY
SOFT BALSA
2-3/4"
MACHINE GUN PORTS IN LEADING EDGE
SECTION Y-Y NOT TO SCALE
1/4" BALSA SHEET AIL LEADING EDGE
DIHEDRAL BREAK
WING PLAN FRONT VIEW
RADIATOR
AIR INTAKE
OIL COOLER
DIHEDRAL BREAK
AILERON CABLE
L.G. STRUT IS OFFSET 3/16" FROM ℄ OF WHEEL WELL
3/16"
90°
1/4" PLYWOOD LANDING GEAR MOUNT PLATE
PIVOT
WHEEL WELL CENTER
WHEEL CENTER
LANDING GEAR TOP VIEW
MECHANICAL RETRACTS ARE PLACED IN THE SAME LOCATION
90°
RETRACT ANGLE
LANDING GEAR FRONT VIEW
1/2" BALSA SHEET
3/32" M W JOINER
GROOVED RECESS FOR ELEVATOR
STABILIZER
ELEVATOR
HINGE TO SUIT
3/16" BALSA SHEET
1/16" BALSA SHEET CORE WITH 1/16" BALSA SHEET RIBS TOP AND BOTTOM
3/16" BALSA SHEET
FRONT VIEW
CARVE FROM BALSA BLOCK
BOTTOM VIEW
SIDE VIEW
OIL COOLER
CARVE FROM BALSA BLOCK
BOTTOM VIEW
FRONT VIEW
AIR INTAKE
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SUPERMARINE SPITFIRE Mk I
DESIGNED BY ROB WILLINSHP
DRAWN BY OLIVE SMALLEY
MADE BY JOE DEMARCO
0" 1" 2" 3" 4" 5" 6"
SHEET 2 OF 2
PLAN NO. 1065 2