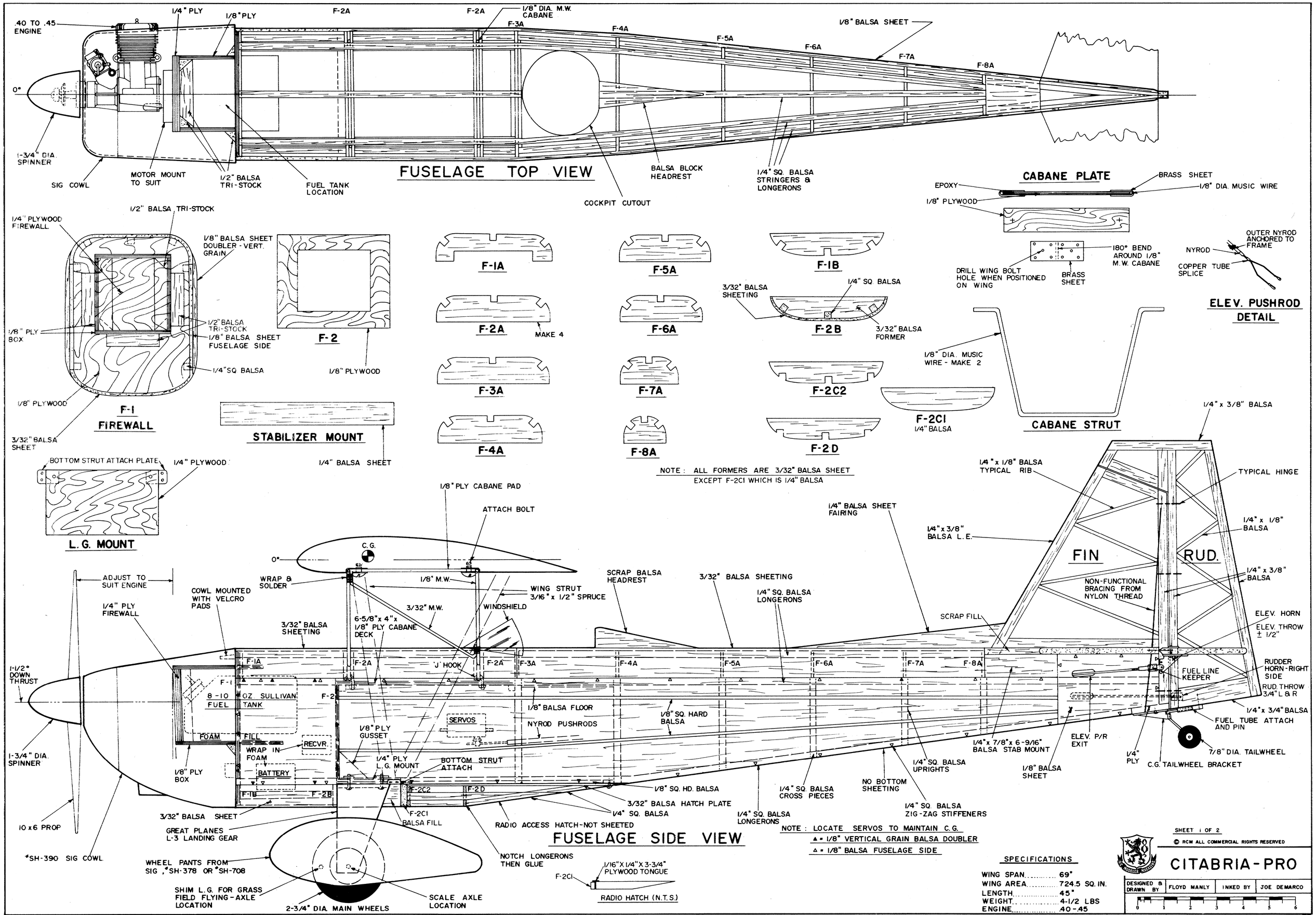
.40 TO .45 ENGINE
1/4" PLY
1/8" PLY
F-2A
F-2A
1/8" DIA. M.W. CABANE
F-3A
F-4A
F-5A
F-6A
F-7A
F-8A
1/8" BALSA SHEET
0°
1-3/4" DIA. SPINNER
SIG COWL
MOTOR MOUNT TO SUIT
1/2" BALSA TRI-STOCK
FUEL TANK LOCATION
COCKPIT CUTOUT
BALSA BLOCK HEADREST
1/4" SQ. BALSA STRINGERS & LONGERONS
FUSELAGE TOP VIEW
CABANE PLATE
EPOXY
BRASS SHEET
1/8" DIA. MUSIC WIRE
1/8" PLYWOOD
180° BEND AROUND 1/8" M.W. CABANE
DRILL WING BOLT HOLE WHEN POSITIONED ON WING
BRASS SHEET
OUTER NYROD ANCHORED TO FRAME
NYROD
COPPER TUBE SPLICE
ELEV. PUSHROD DETAIL
1/4" PLYWOOD FIREWALL
1/2" BALSA TRI-STOCK
1/8" BALSA SHEET DOUBLER - VERT. GRAIN
1/8" PLY BOX
1/2" BALSA TRI-STOCK
1/8" BALSA SHEET FUSELAGE SIDE
1/4" SQ. BALSA
1/8" PLYWOOD
3/32" BALSA SHEET
F-1
FIREWALL
F-2
1/8" PLYWOOD
F-1A
F-2A
MAKE 4
F-3A
F-4A
F-5A
F-6A
F-7A
F-8A
F-1B
3/32" BALSA SHEETING
1/4" SQ. BALSA
F-2B
3/32" BALSA FORMER
F-2C2
F-2C1
1/4" BALSA
F-2D
NOTE: ALL FORMERS ARE 3/32" BALSA SHEET EXCEPT F-2C1 WHICH IS 1/4" BALSA
1/8" DIA. MUSIC WIRE - MAKE 2
CABANE STRUT
STABILIZER MOUNT
1/4" BALSA SHEET
BOTTOM STRUT ATTACH PLATE
1/4" PLYWOOD
L. G. MOUNT
1/4" x 3/8" BALSA
1/4" x 1/8" BALSA TYPICAL RIB
TYPICAL HINGE
1/8" PLY CABANE PAD
ATTACH BOLT
1/4" BALSA SHEET FAIRING
1/4" x 3/8" BALSA L.E.
1/4" x 1/8" BALSA
FIN
RUD.
1/4" x 3/8" BALSA
NON-FUNCTIONAL BRACING FROM NYLON THREAD
C.G.
0°
ADJUST TO SUIT ENGINE
WRAP & SOLDER
1/8" M.W.
WING STRUT 3/16" x 1/2" SPRUCE
SCRAP BALSA HEADREST
3/32" BALSA SHEETING
1/4" SQ. BALSA LONGERONS
COWL MOUNTED WITH VELCRO PADS
1/4" PLY FIREWALL
3/32" M.W.
WINDSHIELD
6-5/8" x 4" x 1/8" PLY CABANE DECK
3/32" BALSA SHEETING
SCRAP FILL
ELEV. HORN
ELEV. THROW ± 1/2"
1-1/2° DOWN THRUST
F-1A
F-2A
'J' HOOK
F-2A
F-3A
F-4A
F-5A
F-6A
F-7A
F-8A
RUDDER HORN - RIGHT SIDE
FUEL LINE KEEPER
RUD. THROW 3/4" L & R
F-1
8-10 OZ SULLIVAN FUEL TANK
F-2
1/8" BALSA FLOOR
1/8" SQ. HARD BALSA
1/4" x 3/4" BALSA
SERVOS
NYROD PUSHRODS
FUEL TUBE ATTACH AND PIN
FOAM FILL
RECVR.
WRAP IN FOAM
1/8" PLY GUSSET
1/4" x 7/8" x 6-9/16" BALSA STAB MOUNT
ELEV. P/R EXIT
1/4" PLY
7/8" DIA. TAILWHEEL
1-3/4" DIA. SPINNER
1/8" PLY BOX
BATTERY
1/4" PLY L.G. MOUNT
BOTTOM STRUT ATTACH
1/4" SQ. BALSA UPRIGHTS
1/8" BALSA SHEET
C.G. TAILWHEEL BRACKET
F-1B
F-2B
F-2C2
F-2D
1/8" SQ. HD. BALSA
NO BOTTOM SHEETING
1/4" SQ. BALSA CROSS PIECES
3/32" BALSA HATCH PLATE
1/4" SQ. BALSA
1/4" SQ. BALSA ZIG-ZAG STIFFENERS
10 x 6 PROP
3/32" BALSA SHEET
F-2C1
BALSA FILL
1/4" SQ. BALSA LONGERONS
GREAT PLANES L-3 LANDING GEAR
RADIO ACCESS HATCH - NOT SHEETED
FUSELAGE SIDE VIEW
NOTE: LOCATE SERVOS TO MAINTAIN C.G.
▲ = 1/8" VERTICAL GRAIN BALSA DOUBLER
△ = 1/8" BALSA FUSELAGE SIDE
*SH-390 SIG COWL
WHEEL PANTS FROM SIG, *SH-378 OR *SH-708
NOTCH LONGERONS THEN GLUE
1/16" X 1/4" X 3-3/4" PLYWOOD TONGUE
F-2C1
RADIO HATCH (N.T.S.)
SHIM L.G. FOR GRASS FIELD FLYING - AXLE LOCATION
2-3/4" DIA. MAIN WHEELS
SCALE AXLE LOCATION
SPECIFICATIONS
WING SPAN ..... 69"
WING AREA ..... 724.5 SQ. IN.
LENGTH ..... 45"
WEIGHT ..... 4-1/2 LBS
ENGINE ..... .40-.45
SHEET 1 OF 2
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DESIGNED & DRAWN BY
FLOYD MANLY
INKED BY
JOE DEMARCO
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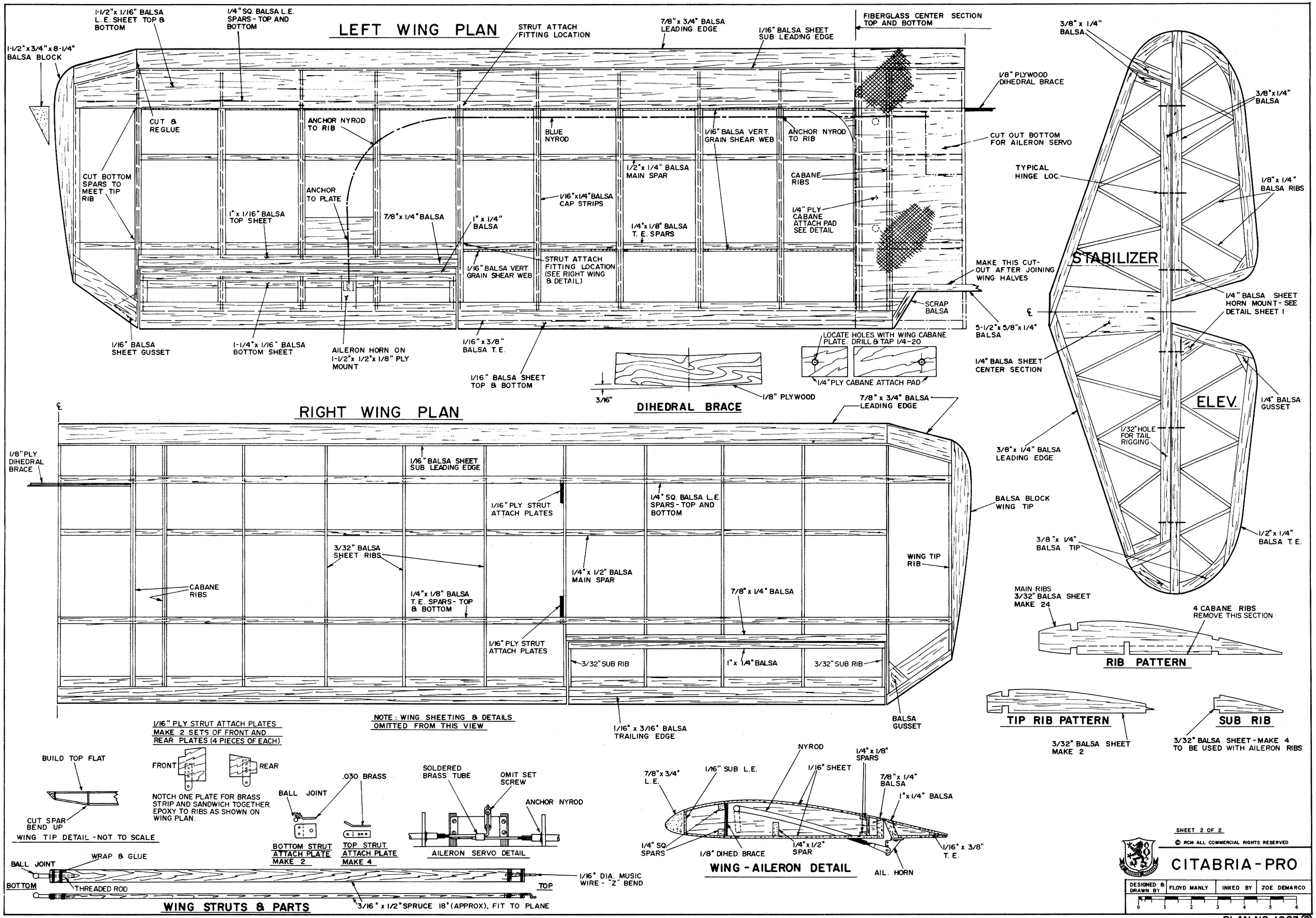
PLAN NO. 1083 2


LEFT WING PLAN
1-1/2"x 1/16" BALSA L.E. SHEET TOP & BOTTOM
1/4" SQ. BALSA L.E. SPARS - TOP AND BOTTOM
STRUT ATTACH FITTING LOCATION
7/8"x 3/4" BALSA LEADING EDGE
1/16" BALSA SHEET SUB LEADING EDGE
FIBERGLASS CENTER SECTION TOP AND BOTTOM
1-1/2"x 3/4"x 8-1/4" BALSA BLOCK
CUT & REGLUE
ANCHOR NYROD TO RIB
BLUE NYROD
1/16" BALSA VERT. GRAIN SHEAR WEB
ANCHOR NYROD TO RIB
1/8" PLYWOOD DIHEDRAL BRACE
CUT OUT BOTTOM FOR AILERON SERVO
CUT BOTTOM SPARS TO MEET TIP RIB
1/2"x 1/4" BALSA MAIN SPAR
CABANE RIBS
ANCHOR TO PLATE
1/16"x1/4" BALSA CAP STRIPS
1" x 1/16" BALSA TOP SHEET
7/8"x 1/4" BALSA
1" x 1/4" BALSA
1/4"x 1/8" BALSA T. E. SPARS
1/4" PLY CABANE ATTACH PAD SEE DETAIL
1/16" BALSA VERT. GRAIN SHEAR WEB
STRUT ATTACH FITTING LOCATION (SEE RIGHT WING & DETAIL)
MAKE THIS CUT-OUT AFTER JOINING WING HALVES
SCRAP BALSA
5-1/2"x 5/8"x 1/4" BALSA
1/16" BALSA SHEET GUSSET
1-1/4"x 1/16" BALSA BOTTOM SHEET
AILERON HORN ON 1-1/2"x 1/2"x 1/8" PLY MOUNT
1/16"x 3/8" BALSA T.E.
1/16" BALSA SHEET TOP & BOTTOM
LOCATE HOLES WITH WING CABANE PLATE. DRILL & TAP 1/4-20
1/4" PLY CABANE ATTACH PAD
1/4" BALSA SHEET CENTER SECTION
3/16"
1/8" PLYWOOD
DIHEDRAL BRACE
RIGHT WING PLAN
7/8" x 3/4" BALSA LEADING EDGE
1/8" PLY DIHEDRAL BRACE
1/16" BALSA SHEET SUB LEADING EDGE
1/16" PLY STRUT ATTACH PLATES
1/4" SQ. BALSA L.E. SPARS - TOP AND BOTTOM
BALSA BLOCK WING TIP
3/32" BALSA SHEET RIBS
1/4" x 1/2" BALSA MAIN SPAR
WING TIP RIB
CABANE RIBS
1/4"x 1/8" BALSA T. E. SPARS - TOP & BOTTOM
7/8" x 1/4" BALSA
1/16" PLY STRUT ATTACH PLATES
3/32" SUB RIB
1" x 1/4" BALSA
3/32" SUB RIB
BALSA GUSSET
1/16" x 3/16" BALSA TRAILING EDGE
NOTE: WING SHEETING & DETAILS OMITTED FROM THIS VIEW
3/8" x 1/4" BALSA
3/8"x 1/4" BALSA
TYPICAL HINGE LOC.
1/8"x 1/4" BALSA RIBS
STABILIZER
1/4" BALSA SHEET HORN MOUNT - SEE DETAIL SHEET 1
ELEV.
1/4" BALSA GUSSET
1/32" HOLE FOR TAIL RIGGING
3/8" x 1/4" BALSA LEADING EDGE
1/2" x 1/4" BALSA T. E.
3/8" x 1/4" BALSA TIP
MAIN RIBS 3/32" BALSA SHEET MAKE 24
4 CABANE RIBS REMOVE THIS SECTION
RIB PATTERN
TIP RIB PATTERN
3/32" BALSA SHEET MAKE 2
SUB RIB
3/32" BALSA SHEET - MAKE 4 TO BE USED WITH AILERON RIBS
1/16" PLY STRUT ATTACH PLATES MAKE 2 SETS OF FRONT AND REAR PLATES (4 PIECES OF EACH)
FRONT
REAR
NOTCH ONE PLATE FOR BRASS STRIP AND SANDWICH TOGETHER. EPOXY TO RIBS AS SHOWN ON WING PLAN.
BUILD TOP FLAT
CUT SPAR BEND UP
WING TIP DETAIL - NOT TO SCALE
BALL JOINT
.030 BRASS
BOTTOM STRUT ATTACH PLATE MAKE 2
TOP STRUT ATTACH PLATE MAKE 4
SOLDERED BRASS TUBE
OMIT SET SCREW
ANCHOR NYROD
AILERON SERVO DETAIL
NYROD
1/4"x 1/8" SPARS
7/8"x 3/4" L.E.
1/16" SUB L.E.
1/16" SHEET
7/8"x 1/4" BALSA
1"x 1/4" BALSA
1/4" SQ. SPARS
1/8" DIHED. BRACE
1/4"x 1/2" SPAR
1/16" x 3/8" T. E.
AIL. HORN
WING - AILERON DETAIL
WRAP & GLUE
BALL JOINT
BOTTOM
THREADED ROD
TOP
1/16" DIA. MUSIC WIRE - "Z" BEND
3/16" x 1/2" SPRUCE 18" (APPROX), FIT TO PLANE
WING STRUTS & PARTS
SHEET 2 OF 2
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