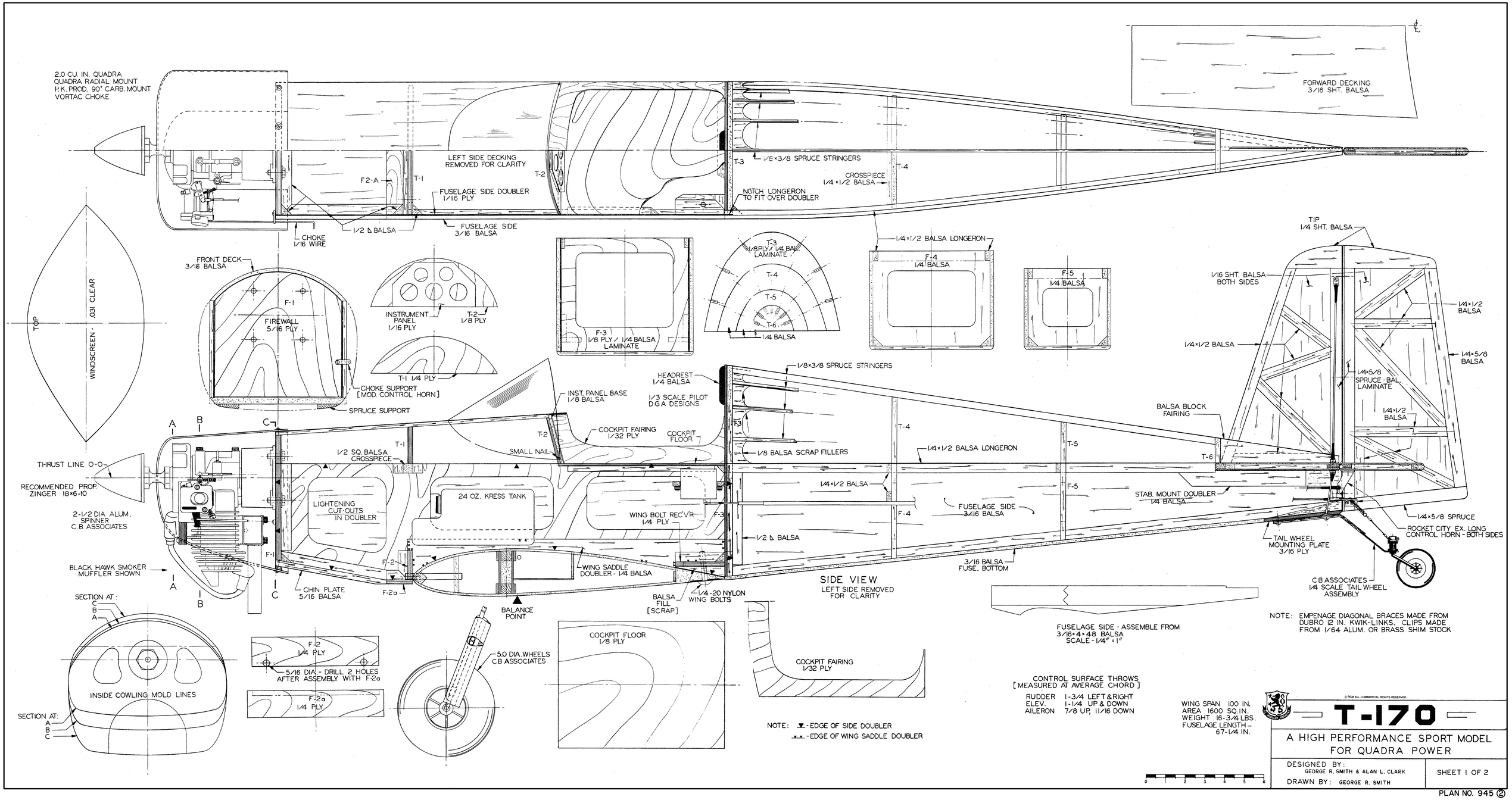
2.0 CU. IN. QUADRA
QUADRA RADIAL MOUNT
P.K. PROD. 90° CARB. MOUNT
VORTAC CHOKE
FORWARD DECKING
3/16 SHT. BALSA
LEFT SIDE DECKING
REMOVED FOR CLARITY
F2-A
T-1
T-2
T-3
T-4
1/8×3/8 SPRUCE STRINGERS
CROSSPIECE
1/4×1/2 BALSA
FUSELAGE SIDE DOUBLER
1/16 PLY
NOTCH LONGERON
TO FIT OVER DOUBLER
CHOKE
1/16 WIRE
1/2 ▷ BALSA
FUSELAGE SIDE
3/16 BALSA
TOP
WINDSCREEN - .031 CLEAR
FRONT DECK
3/16 BALSA
F-1
FIREWALL
5/16 PLY
INSTRUMENT
PANEL
1/16 PLY
T-2
1/8 PLY
T-1 1/4 PLY
CHOKE SUPPORT
[MOD. CONTROL HORN]
SPRUCE SUPPORT
F-3
1/8 PLY / 1/4 BALSA
LAMINATE
T-3
1/8 PLY / 1/4 BAL.
LAMINATE
T-4
T-5
T-6
1/4 BALSA
1/4×1/2 BALSA LONGERON
F-4
1/4 BALSA
F-5
1/4 BALSA
TIP
1/4 SHT. BALSA
1/16 SHT. BALSA
BOTH SIDES
1/4×1/2
BALSA
1/4×1/2 BALSA
1/4×5/8
BALSA
1/4×5/8
SPRUCE - BAL.
LAMINATE
1/8×3/8 SPRUCE STRINGERS
HEADREST
1/4 BALSA
1/3 SCALE PILOT
DGA DESIGNS
INST. PANEL BASE
1/8 BALSA
COCKPIT FAIRING
1/32 PLY
COCKPIT
FLOOR
SMALL NAIL
1/8 BALSA SCRAP FILLERS
1/4×1/2 BALSA LONGERON
BALSA BLOCK
FAIRING
THRUST LINE 0-0
RECOMMENDED PROP.
ZINGER 18×6-10
1/2 SQ. BALSA
CROSSPIECE
LIGHTENING
CUT-OUTS
IN DOUBLER
24 OZ. KRESS TANK
WING BOLT REC'V'R
1/4 PLY
1/4×1/2 BALSA
FUSELAGE SIDE
3/16 BALSA
STAB. MOUNT DOUBLER
1/4 BALSA
1/4×5/8 SPRUCE
ROCKET CITY EX. LONG
CONTROL HORN - BOTH SIDES
TAIL WHEEL
MOUNTING PLATE
3/16 PLY
2-1/2 DIA. ALUM.
SPINNER
C.B. ASSOCIATES
BLACK HAWK SMOKER
MUFFLER SHOWN
CHIN PLATE
5/16 BALSA
F-2
F-2a
WING SADDLE
DOUBLER - 1/4 BALSA
1/2 ▷ BALSA
3/16 BALSA
FUSE. BOTTOM
C.B. ASSOCIATES
1/4 SCALE TAIL WHEEL
ASSEMBLY
BALANCE
POINT
BALSA
FILL
[SCRAP]
1/4-20 NYLON
WING BOLTS
SIDE VIEW
LEFT SIDE REMOVED
FOR CLARITY
SECTION AT:
C
B
A
INSIDE COWLING MOLD LINES
F-2
1/4 PLY
5/16 DIA. - DRILL 2 HOLES
AFTER ASSEMBLY WITH F-2a
F-2a
1/4 PLY
5.0 DIA. WHEELS
C.B. ASSOCIATES
COCKPIT FLOOR
1/8 PLY
COCKPIT FAIRING
1/32 PLY
NOTE: ▼ - EDGE OF SIDE DOUBLER
▼▼ - EDGE OF WING SADDLE DOUBLER
FUSELAGE SIDE - ASSEMBLE FROM
3/16×4×48 BALSA
SCALE - 1/4" = 1"
NOTE: EMPENAGE DIAGONAL BRACES MADE FROM
DUBRO 12 IN. KWIK-LINKS. CLIPS MADE
FROM 1/64 ALUM. OR BRASS SHIM STOCK
CONTROL SURFACE THROWS
[MEASURED AT AVERAGE CHORD]
RUDDER 1-3/4 LEFT & RIGHT
ELEV. 1-1/4 UP & DOWN
AILERON 7/8 UP, 11/16 DOWN
WING SPAN 100 IN.
AREA 1600 SQ. IN.
WEIGHT 16-3/4 LBS.
FUSELAGE LENGTH -
67-1/4 IN.
0 1 2 3 4 5 6
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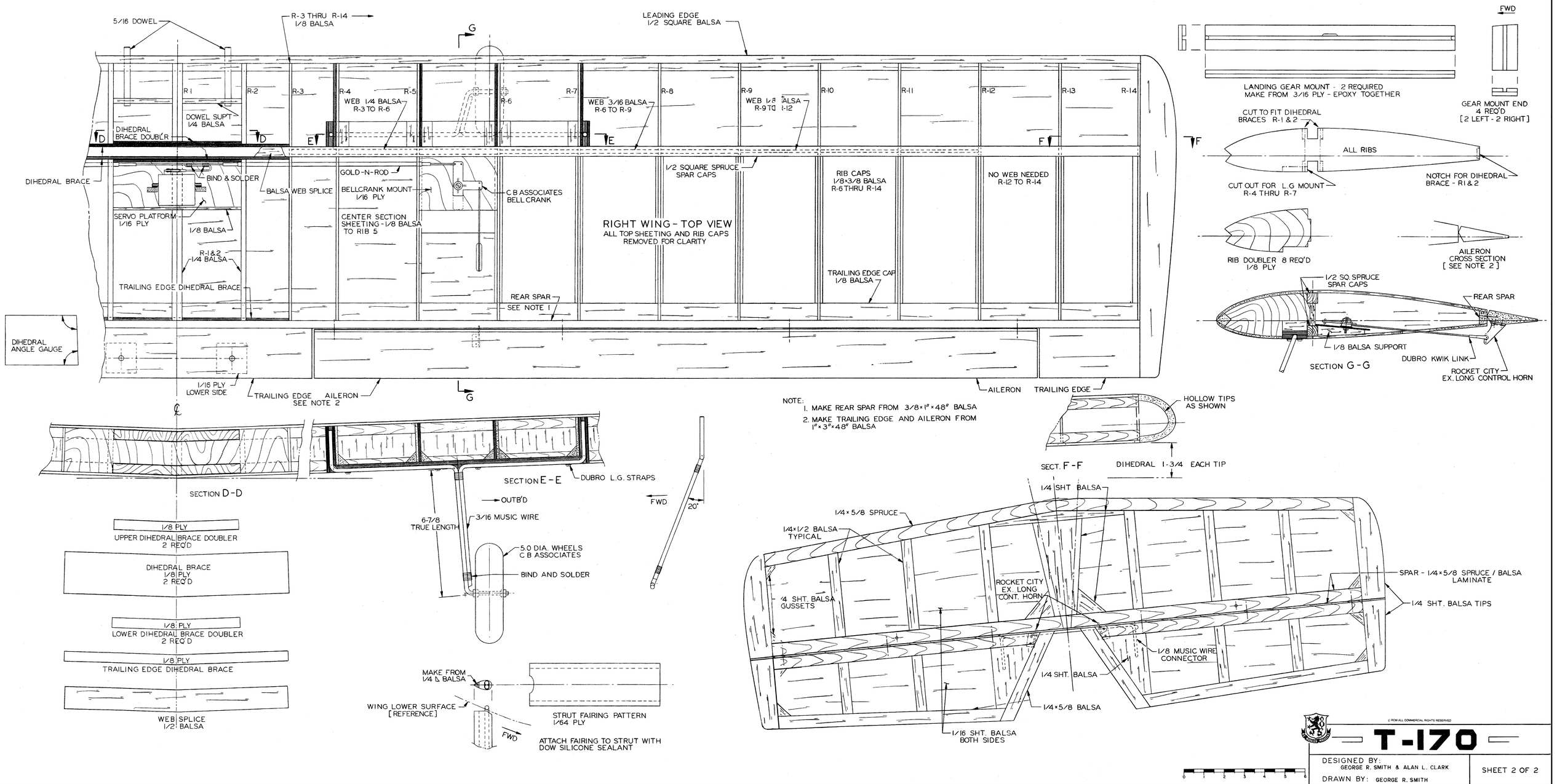
T-170
A HIGH PERFORMANCE SPORT MODEL
FOR QUADRA POWER
DESIGNED BY:
GEORGE R. SMITH & ALAN L. CLARK
DRAWN BY: GEORGE R. SMITH
SHEET 1 OF 2
PLAN NO. 945 ②


5/16 DOWEL
R-3 THRU R-14
1/8 BALSA
LEADING EDGE
1/2 SQUARE BALSA
R 1
R-2
R-3
R-4
R-5
R-6
R-7
R-8
R-9
R-10
R-11
R-12
R-13
R-14
WEB 1/4 BALSA
R-3 TO R-6
WEB 3/16 BALSA
R-6 TO R-9
WEB 1/8 BALSA
R-9 TO R-12
DOWEL SUPT
1/4 BALSA
DIHEDRAL
BRACE DOUBLR
DIHEDRAL BRACE
BIND & SOLDER
BALSA WEB SPLICE
GOLD-N-ROD
BELLCRANK MOUNT
1/16 PLY
C B ASSOCIATES
BELL CRANK
1/2 SQUARE SPRUCE
SPAR CAPS
RIB CAPS
1/8×3/8 BALSA
R-6 THRU R-14
NO WEB NEEDED
R-12 TO R-14
SERVO PLATFORM
1/16 PLY
1/8 BALSA
CENTER SECTION
SHEETING - 1/8 BALSA
TO RIB 5
RIGHT WING - TOP VIEW
ALL TOP SHEETING AND RIB CAPS
REMOVED FOR CLARITY
R-1 & 2
1/4 BALSA
TRAILING EDGE DIHEDRAL BRACE
REAR SPAR
SEE NOTE 1
TRAILING EDGE CAP
1/8 BALSA
DIHEDRAL
ANGLE GAUGE
1/16 PLY
LOWER SIDE
TRAILING EDGE
AILERON
SEE NOTE 2
AILERON
TRAILING EDGE
FWD
LANDING GEAR MOUNT - 2 REQUIRED
MAKE FROM 3/16 PLY - EPOXY TOGETHER
GEAR MOUNT END
4 REQ'D
[2 LEFT - 2 RIGHT]
CUT TO FIT DIHEDRAL
BRACES R-1 & 2
ALL RIBS
CUT OUT FOR L.G MOUNT
R-4 THRU R-7
NOTCH FOR DIHEDRAL
BRACE - R1 & 2
RIB DOUBLER 8 REQ'D
1/8 PLY
AILERON
CROSS SECTION
[SEE NOTE 2]
1/2 SQ. SPRUCE
SPAR CAPS
REAR SPAR
1/8 BALSA SUPPORT
SECTION G-G
DUBRO KWIK LINK
ROCKET CITY
EX. LONG CONTROL HORN
NOTE:
1. MAKE REAR SPAR FROM 3/8×1"×48" BALSA
2. MAKE TRAILING EDGE AND AILERON FROM
1"×3"×48" BALSA
HOLLOW TIPS
AS SHOWN
SECT. F-F
DIHEDRAL 1-3/4 EACH TIP
SECTION D-D
1/8 PLY
UPPER DIHEDRAL BRACE DOUBLER
2 REQ'D
DIHEDRAL BRACE
1/8 PLY
2 REQ'D
1/8 PLY
LOWER DIHEDRAL BRACE DOUBLER
2 REQ'D
1/8 PLY
TRAILING EDGE DIHEDRAL BRACE
WEB SPLICE
1/2 BALSA
SECTION E-E
DUBRO L.G. STRAPS
OUTB'D
FWD
20°
6-7/8
TRUE LENGTH
3/16 MUSIC WIRE
5.0 DIA. WHEELS
C B ASSOCIATES
BIND AND SOLDER
MAKE FROM
1/4 ⅃ BALSA
WING LOWER SURFACE
[REFERENCE]
FWD
STRUT FAIRING PATTERN
1/64 PLY
ATTACH FAIRING TO STRUT WITH
DOW SILICONE SEALANT
1/4 SHT BALSA
1/4×5/8 SPRUCE
1/4×1/2 BALSA
TYPICAL
ROCKET CITY
EX. LONG
CONT. HORN
4 SHT. BALSA
GUSSETS
SPAR - 1/4×5/8 SPRUCE / BALSA
LAMINATE
1/4 SHT. BALSA TIPS
1/8 MUSIC WIRE
CONNECTOR
1/4 SHT. BALSA
1/4×5/8 BALSA
1/16 SHT. BALSA
BOTH SIDES
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T-170
DESIGNED BY:
GEORGE R. SMITH & ALAN L. CLARK
DRAWN BY: GEORGE R. SMITH
SHEET 2 OF 2
0 1 2 3 4 5 6

PLAN NO. 945 ②