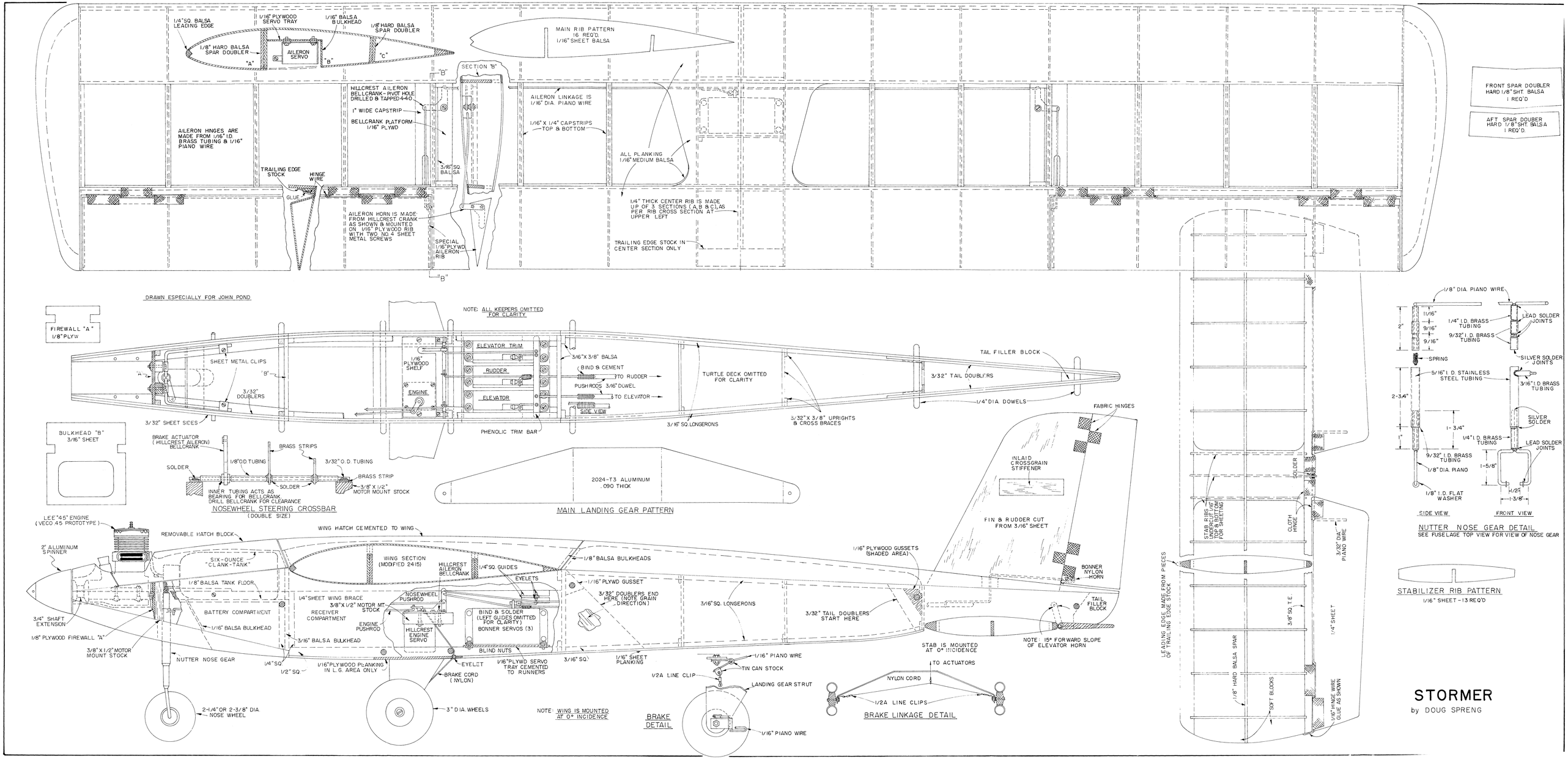
1/4" SQ. BALSA LEADING EDGE
1/16" PLYWOOD SERVO TRAY
1/16" BALSA BULKHEAD
1/8" HARD BALSA SPAR DOUBLER
AILERON SERVO
"A"
"B"
"C"
MAIN RIB PATTERN 16 REQ'D. 1/16" SHEET BALSA
SECTION "B"
HILLCREST AILERON BELLCRANK-PIVOT HOLE DRILLED & TAPPED 4-40
1" WIDE CAPSTRIP
BELLCRANK PLATFORM 1/16" PLYWD
AILERON LINKAGE IS 1/16" DIA. PIANO WIRE
1/16" X 1/4" CAPSTRIPS TOP & BOTTOM
AILERON HINGES ARE MADE FROM 1/16" I.D. BRASS TUBING & 1/16" PIANO WIRE
3/16" SQ. BALSA
ALL PLANKING 1/16" MEDIUM BALSA
TRAILING EDGE STOCK
HINGE WIRE
GLUE
1/4" THICK CENTER RIB IS MADE UP OF 3 SECTIONS (A, B & C), AS PER RIB CROSS SECTION AT UPPER LEFT
AILERON HORN IS MADE FROM HILLCREST CRANK AS SHOWN & MOUNTED ON 1/16" PLYWOOD RIB WITH TWO NO. 4 SHEET METAL SCREWS
SPECIAL 1/16" PLYWD AILERON RIB
TRAILING EDGE STOCK IN CENTER SECTION ONLY
FRONT SPAR DOUBLER HARD 1/8" SHT. BALSA 1 REQ'D
AFT SPAR DOUBER HARD 1/8" SHT. BALSA 1 REQ'D.
DRAWN ESPECIALLY FOR JOHN POND
FIREWALL "A" 1/8" PLYW
NOTE: ALL KEEPERS OMITTED FOR CLARITY
SHEET METAL CLIPS
3/32" DOUBLERS
3/32" SHEET SIDES
1/16" PLYWOOD SHELF
ENGINE
ELEVATOR TRIM
RUDDER
ELEVATOR
3/16" X 3/8" BALSA
BIND & CEMENT
TO RUDDER
PUSHRODS 3/16" DUWEL
TO ELEVATOR
SIDE VIEW
TURTLE DECK OMITTED FOR CLARITY
TAIL FILLER BLOCK
3/32" TAIL DOUBLERS
1/4" DIA. DOWELS
PHENOLIC TRIM BAR
3/16" SQ. LONGERONS
3/32" X 3/8" UPRIGHTS & CROSS BRACES
FABRIC HINGES
BULKHEAD "B" 3/16" SHEET
BRAKE ACTUATOR (HILLCREST AILERON) BELLCRANK
BRASS STRIPS
1/8" O.D. TUBING
3/32" O.D. TUBING
SOLDER
BRASS STRIP
3/8" X 1/2" MOTOR MOUNT STOCK
INNER TUBING ACTS AS BEARING FOR BELLCRANK. DRILL BELLCRANK FOR CLEARANCE
NOSEWHEEL STEERING CROSSBAR (DOUBLE SIZE)
2024-T3 ALUMINUM .090 THICK
MAIN LANDING GEAR PATTERN
INLAID CROSSGRAIN STIFFENER
FIN & RUDDER CUT FROM 3/16" SHEET
BONNER NYLON HORN
LEE "45" ENGINE (VECO 45 PROTOTYPE)
REMOVABLE HATCH BLOCK
WING HATCH CEMENTED TO WING
2" ALUMINUM SPINNER
SIX-OUNCE "CLANK-TANK"
1/8" BALSA TANK FLOOR
WING SECTION (MODIFIED 2415)
HILLCREST AILERON BELLCRANK
1/4" SQ. GUIDES
EYELETS
1/8" BALSA BULKHEADS
1/16" PLYWD GUSSET
3/32" DOUBLERS END HERE (NOTE GRAIN DIRECTION)
1/16" PLYWOOD GUSSETS (SHADED AREA)
1/4" SHEET WING BRACE
3/8" X 1/2" MOTOR MT. STOCK
NOSEWHEEL PUSHROD
BATTERY COMPARTMENT
RECEIVER COMPARTMENT
ENGINE PUSHROD
HILLCREST ENGINE SERVO
BIND & SOLDER (LEFT GUIDES OMITTED FOR CLARITY) BONNER SERVOS (3)
3/16" SQ. LONGERONS
3/32" TAIL DOUBLERS START HERE
TAIL FILLER BLOCK
3/4" SHAFT EXTENSION
1/8" PLYWOOD FIREWALL "A"
1/16" BALSA BULKHEAD
3/16" BALSA BULKHEAD
BLIND NUTS
NOTE: 15° FORWARD SLOPE OF ELEVATOR HORN
STAB IS MOUNTED AT 0° INCIDENCE
3/8" X 1/2" MOTOR MOUNT STOCK
NUTTER NOSE GEAR
1/4" SQ.
1/2" SQ.
1/16" PLYWOOD PLANKING IN L.G. AREA ONLY
EYELET
1/16" PLYWD SERVO TRAY CEMENTED TO RUNNERS
3/16" SQ.
1/16" SHEET PLANKING
BRAKE CORD (NYLON)
1/16" PIANO WIRE
TIN CAN STOCK
1/2A LINE CLIP
LANDING GEAR STRUT
1/16" PIANO WIRE
TO ACTUATORS
NYLON CORD
1/2A LINE CLIPS
2-1/4" OR 2-3/8" DIA. NOSE WHEEL
3" DIA. WHEELS
NOTE: WING IS MOUNTED AT 0° INCIDENCE
BRAKE DETAIL
BRAKE LINKAGE DETAIL
LEADING EDGE MADE FROM PIECES OF TRAILING EDGE STOCK
STAB RIBS CUT TO FIT TOP & BOTTOM FOR SHEETING
SOLDER
CLOTH HINGE
3/32" DIA. PIANO WIRE
3/8" SQ. T.E.
1/4" SHEET
1/8" HARD BALSA SPAR
SOFT BLOCKS
1/16" HINGE WIRE GLUE AS SHOWN
1/8" DIA. PIANO WIRE
1/4" I.D. BRASS TUBING
LEAD SOLDER JOINTS
9/32" I.D. BRASS TUBING
SPRING
SILVER SOLDER JOINTS
5/16" I.D. STAINLESS STEEL TUBING
3/16" I.D. BRASS TUBING
SILVER SOLDER
1/4" I.D. BRASS TUBING
LEAD SOLDER JOINTS
9/32" I.D. BRASS TUBING
1/8" DIA. PIANO
1/8" I.D. FLAT WASHER
SIDE VIEW
FRONT VIEW
NUTTER NOSE GEAR DETAIL
SEE FUSELAGE TOP VIEW FOR VIEW OF NOSE GEAR
STABILIZER RIB PATTERN
1/16" SHEET - 13 REQ'D
STORMER
by DOUG SPRENG