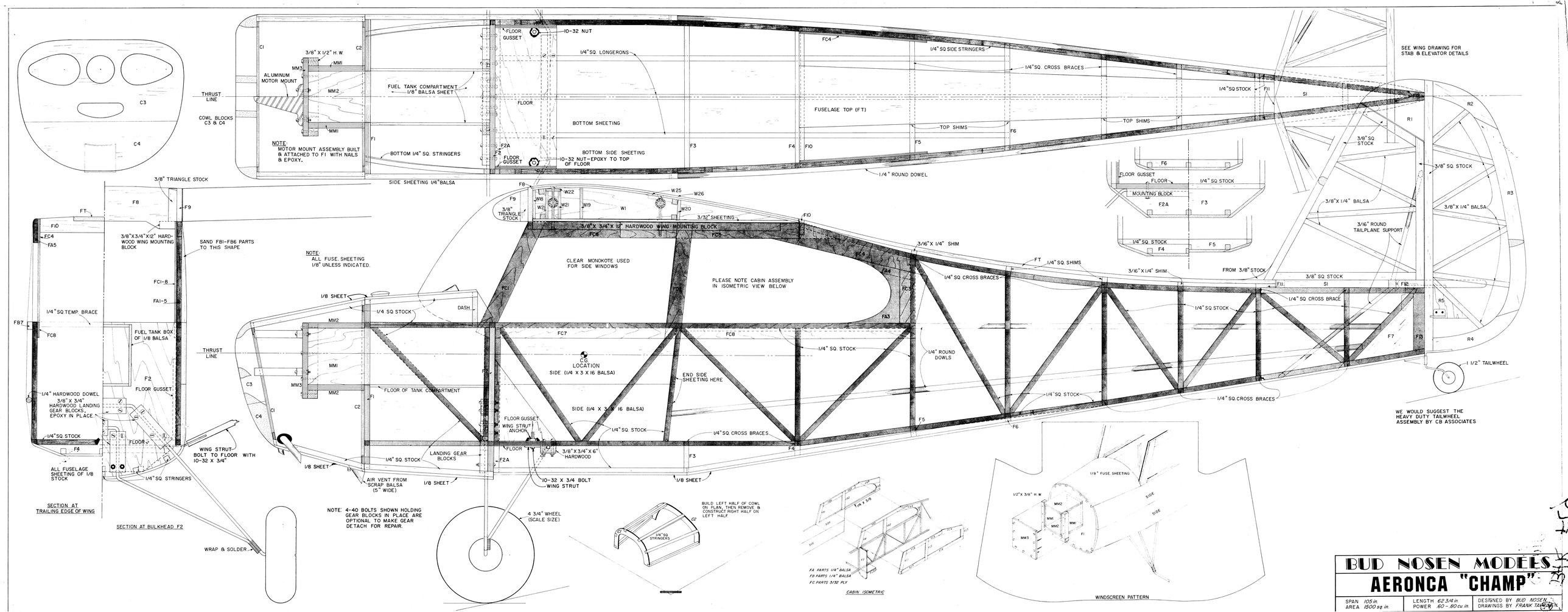
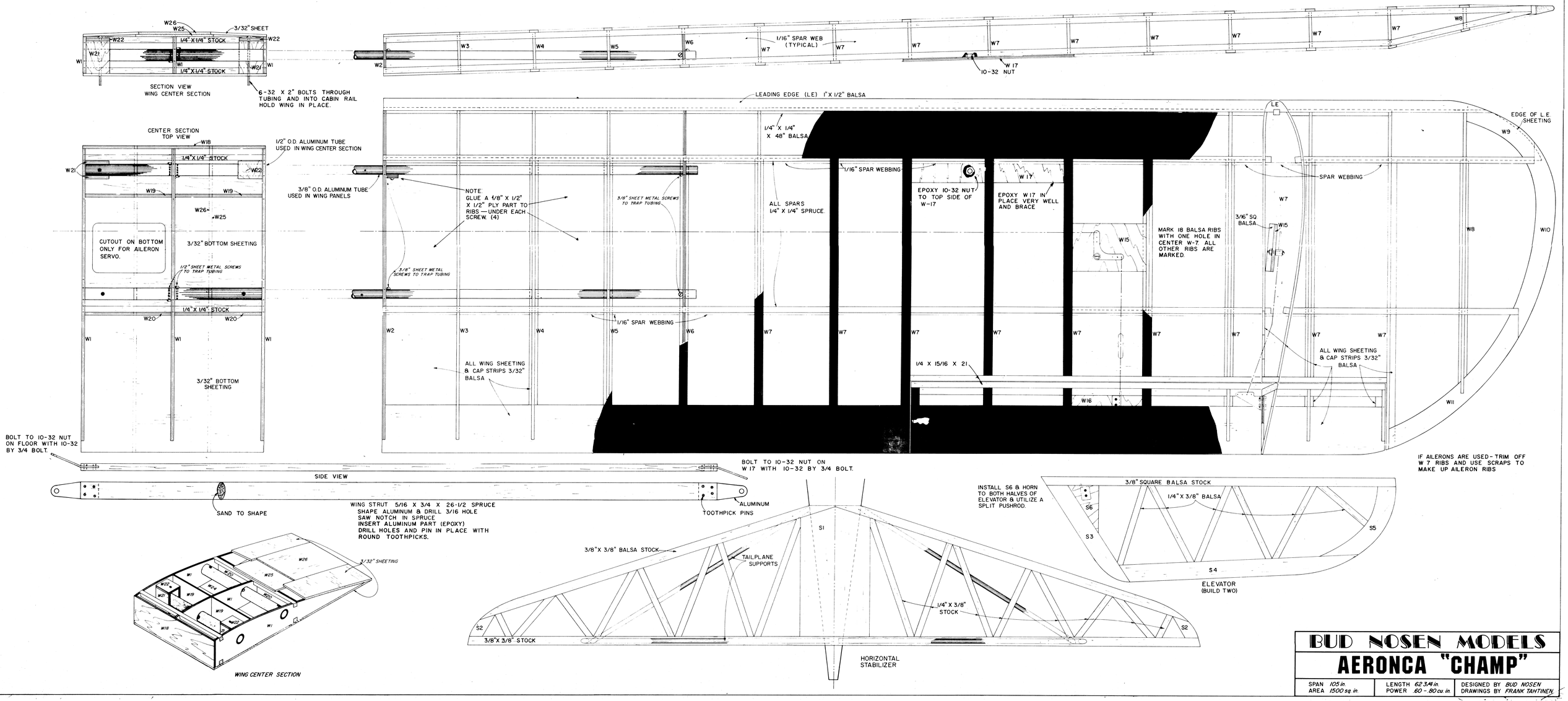

BUD NOSEN MODELS
AERONCA "CHAMP"
SPAN 105 in.
AREA 1500 sq in.
LENGTH 62 3/4 in.
POWER .60 - .80 cu in.
DESIGNED BY BUD NOSEN
DRAWINGS BY FRANK TANNER
SEE WING DRAWING FOR STAB & ELEVATOR DETAILS
THRUST LINE
COWL BLOCKS C3 & C4
ALUMINUM MOTOR MOUNT
3/8" X 1/2" H.W.
NOTE: MOTOR MOUNT ASSEMBLY BUILT & ATTACHED TO F1 WITH NAILS & EPOXY.
FUEL TANK COMPARTMENT 1/8" BALSA SHEET
FLOOR GUSSET
10-32 NUT
1/4" SQ. LONGERONS
BOTTOM SHEETING
BOTTOM 1/4" SQ. STRINGERS
BOTTOM SIDE SHEETING
10-32 NUT-EPOXY TO TOP OF FLOOR
SIDE SHEETING 1/4" BALSA
1/4" SQ. SIDE STRINGERS
1/4" SQ. CROSS BRACES
FUSELAGE TOP (FT)
TOP SHIMS
1/4" ROUND DOWEL
1/4" SQ. STOCK
3/8" SQ. STOCK
3/8" TRIANGLE STOCK
3/8"X3/4"X12" HARDWOOD WING MOUNTING BLOCK
SAND FB1-FB6 PARTS TO THIS SHAPE
NOTE: ALL FUSE. SHEETING 1/8" UNLESS INDICATED.
3/32" SHEETING
CLEAR MONOKOTE USED FOR SIDE WINDOWS
PLEASE NOTE CABIN ASSEMBLY IN ISOMETRIC VIEW BELOW
3/16"X 1/4" SHIM
1/4" SQ. SHIMS
3/8"X 1/4" BALSA
3/16" ROUND TAILPLANE SUPPORT
FROM 3/8" STOCK
1/4" SQ. CROSS BRACE
1/4" SQ. TEMP. BRACE
FUEL TANK BOX OF 1/8 BALSA
1/8 SHEET
DASH
FLOOR OF TANK COMPARTMENT
C.G. LOCATION
SIDE (1/4 X 3 X 16 BALSA)
END SIDE SHEETING HERE
1/4" ROUND DOWLS
1/4" HARDWOOD DOWEL
3/8" X 3/4" HARDWOOD LANDING GEAR BLOCKS, EPOXY IN PLACE
FLOOR GUSSET
WING STRUT ANCHOR
3/8"X3/4"X 6" HARDWOOD
WING STRUT BOLT TO FLOOR WITH 10-32 X 3/4"
ALL FUSELAGE SHEETING OF 1/8 STOCK
LANDING GEAR BLOCKS
AIR VENT FROM SCRAP BALSA (5" WIDE)
10-32 X 3/4 BOLT WING STRUT
1 1/2" TAILWHEEL
WE WOULD SUGGEST THE HEAVY DUTY TAILWHEEL ASSEMBLY BY CB ASSOCIATES
SECTION AT TRAILING EDGE OF WING
SECTION AT BULKHEAD F2
WRAP & SOLDER
NOTE: 4-40 BOLTS SHOWN HOLDING GEAR BLOCKS IN PLACE ARE OPTIONAL TO MAKE GEAR DETACH FOR REPAIR.
4 3/4" WHEEL (SCALE SIZE)
BUILD LEFT HALF OF COWL ON PLAN, THEN REMOVE & CONSTRUCT RIGHT HALF ON LEFT HALF
FA PARTS 1/4" BALSA
FB PARTS 1/4" BALSA
FC PARTS 3/32 PLY
CABIN ISOMETRIC
1/8" FUSE. SHEETING
1/2" X 3/8" H.W.
WINDSCREEN PATTERN


W26
W25
3/32" SHEET
W22
1/4" X 1/4" STOCK
W21
W1
W2
SECTION VIEW
WING CENTER SECTION
6-32 X 2" BOLTS THROUGH TUBING AND INTO CABIN RAIL HOLD WING IN PLACE.
W3
W4
W5
W6
W7
1/16" SPAR WEB (TYPICAL)
W17
10-32 NUT
W8
LEADING EDGE (LE) 1" X 1/2" BALSA
CENTER SECTION TOP VIEW
W18
1/2" O.D. ALUMINUM TUBE USED IN WING CENTER SECTION
W19
W26
W25
CUTOUT ON BOTTOM ONLY FOR AILERON SERVO.
3/32" BOTTOM SHEETING
1/8" SHEET METAL SCREWS TO TRAP TUBING
W20
3/32" BOTTOM SHEETING
3/8" O.D. ALUMINUM TUBE USED IN WING PANELS
NOTE: GLUE A 1/8" X 1/2" X 1/2" PLY PART TO RIBS — UNDER EACH SCREW. (4)
3/8" SHEET METAL SCREWS TO TRAP TUBING
1/4" X 1/4" X 48" BALSA
ALL SPARS 1/4" X 1/4" SPRUCE.
1/16" SPAR WEBBING
EPOXY 10-32 NUT TO TOP SIDE OF W-17
EPOXY W17 IN PLACE VERY WELL AND BRACE
W15
MARK 18 BALSA RIBS WITH ONE HOLE IN CENTER W-7 ALL OTHER RIBS ARE MARKED.
3/16" SQ. BALSA
SPAR WEBBING
EDGE OF L.E. SHEETING
W9
W10
W11
W16
ALL WING SHEETING & CAP STRIPS 3/32" BALSA
1/4 X 15/16 X 21
LE
BOLT TO 10-32 NUT ON FLOOR WITH 10-32 BY 3/4 BOLT.
SIDE VIEW
SAND TO SHAPE
WING STRUT 5/16 X 3/4 X 26-1/2 SPRUCE
SHAPE ALUMINUM & DRILL 3/16 HOLE
SAW NOTCH IN SPRUCE
INSERT ALUMINUM PART (EPOXY)
DRILL HOLES AND PIN IN PLACE WITH ROUND TOOTHPICKS.
ALUMINUM
TOOTHPICK PINS
BOLT TO 10-32 NUT ON W17 WITH 10-32 BY 3/4 BOLT.
IF AILERONS ARE USED - TRIM OFF W 7 RIBS AND USE SCRAPS TO MAKE UP AILERON RIBS
INSTALL S6 & HORN TO BOTH HALVES OF ELEVATOR & UTILIZE A SPLIT PUSHROD.
3/8" SQUARE BALSA STOCK
1/4" X 3/8" BALSA
S1
S2
S3
S4
S5
S6
ELEVATOR (BUILD TWO)
3/8" X 3/8" BALSA STOCK
TAILPLANE SUPPORTS
1/4" X 3/8" STOCK
3/8" X 3/8" STOCK
HORIZONTAL STABILIZER
3/32" SHEETING
WING CENTER SECTION
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