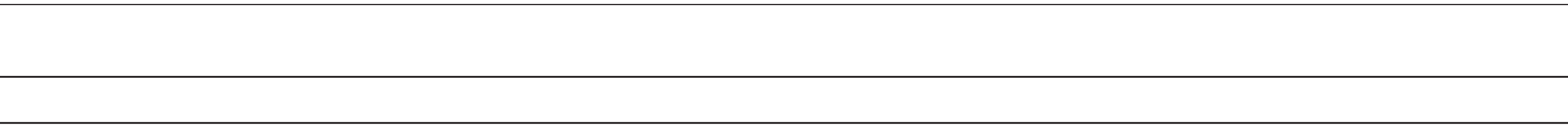


BUTT GLUE FINIS
TOGETHER WITH
EACH WINGTIP.
JOINT WITH 3"
FIBERGLASS TA

CUT OUT TO
W1 RIBS TO
INSTALL TW
SPRUCE FOR
FRONT SPRU
TO UPPER S

FINISHED WING PANELS
WITH 1" DIHEDRAL UNDER
SIDE. WRAP CENTER
SPAR WITH 1/2" WIDE 2 OZ/SQ YD
CARBON FIBER TAPE & EPOXY.

REMOVE TOP SHEETING AND
GLUE TO CLEAR SERVO &
SERVO MOUNTS. TWO PIECES OF 1/4 SQ.
SERVO MOUNTS. REMOVE PIECE IS GLUED
TO SPAR CAPS.



||

||

||

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CONTROL THROWS:

WATER +/ - 1.125"
WINGS +/ - 3/4"
WINGS + 1/2"
- 13/32"

POTENTIAL:

WATER +20%
WINGS +15%

TERRIER ES

SPAN - 58 IN
AREA - 550 SQ IN
WEIGHT - 68 OZS
WING LOADING - 17.8 OZ/SQ FT
WING CUBE LOADING - 9.1 OZ/CU FT

DESIGNED & DRAWN BY AL CLARK
JANUARY 2017

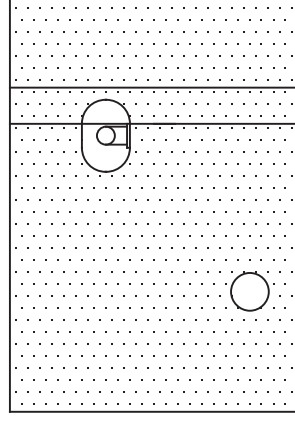
W1 & W2 1/8 BALSA - 2 EA, REQ'D

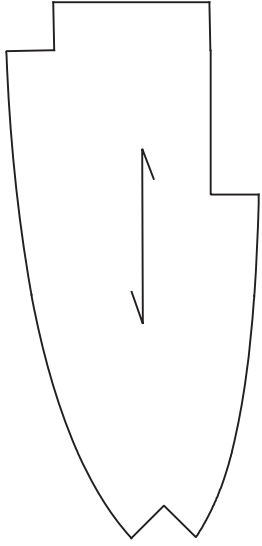


W3 & W4 1/16 BALSA - 2 EA, REQ'D

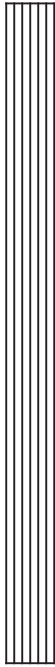
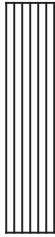
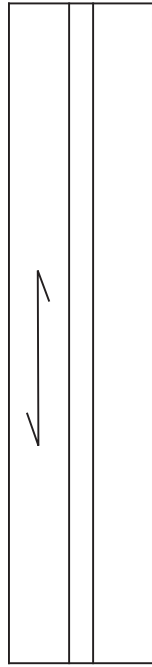
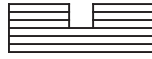
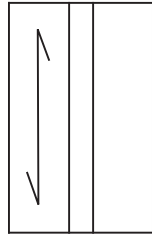


W5 - W11 1/16 BALSA - 14 REQ'D

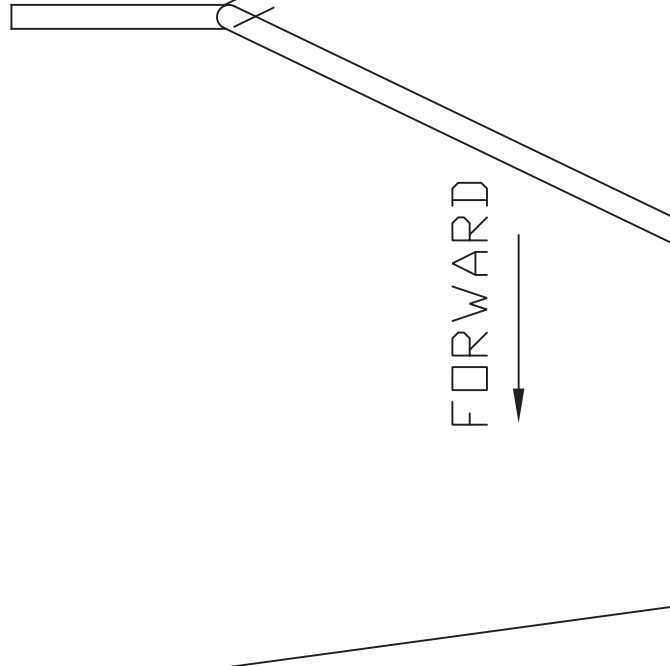




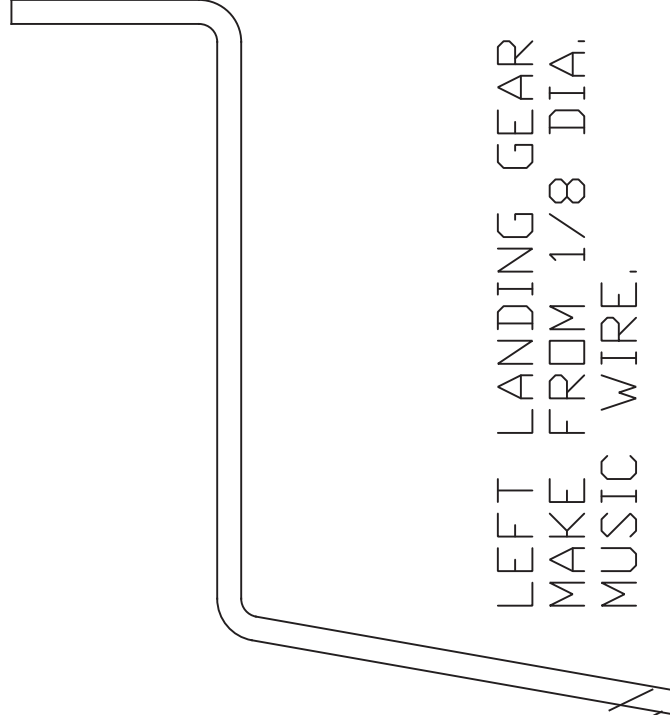
1/16 PLYWOOD LG
DOUBLERS - 4 REQ'D



LG BLOCKS - 2 EACH REQ'D
MAKE FROM 1/8 PLYWOOD



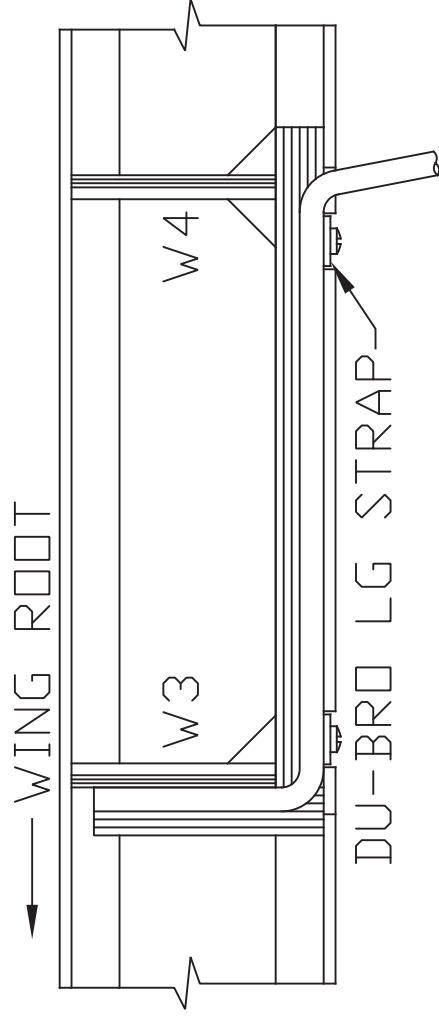
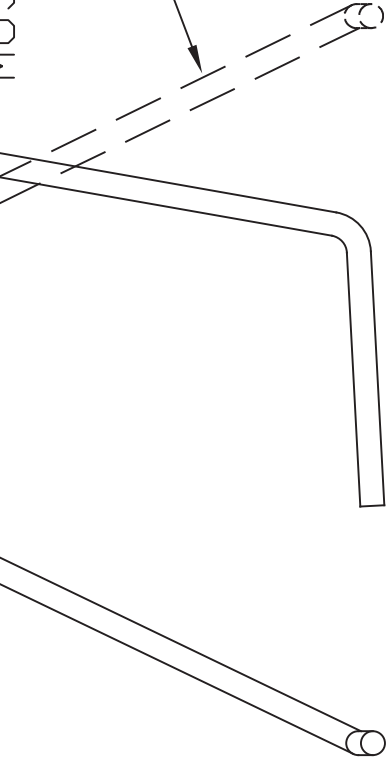
FORWARD
→



LEFT LANDING GEAR
MAKE FROM 1/8 DIA.
MUSIC WIRE.

MUSIC WIRE

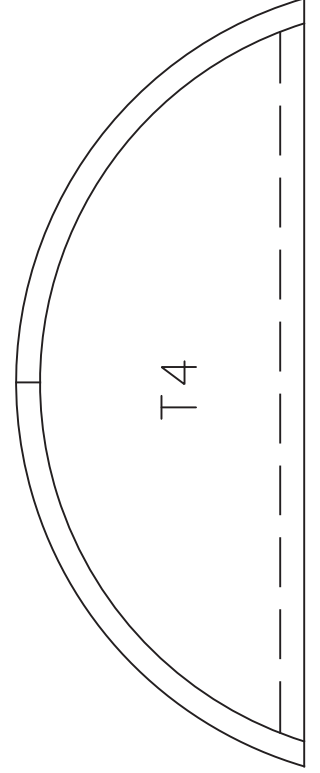
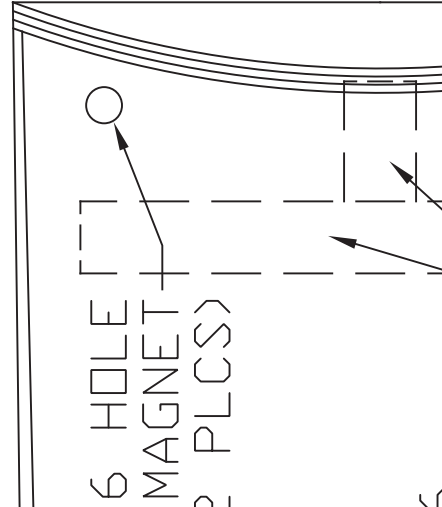
RIGHT LANDING
GEAR IS MIRROR
IMAGE.



SECTION B-B

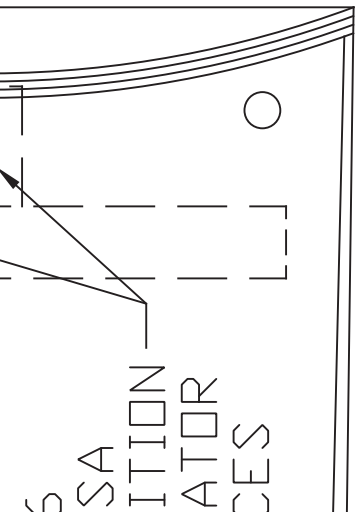
INNER
SHEATHED
GLASS
GLUE

P62 1" DIA.
WHEEL

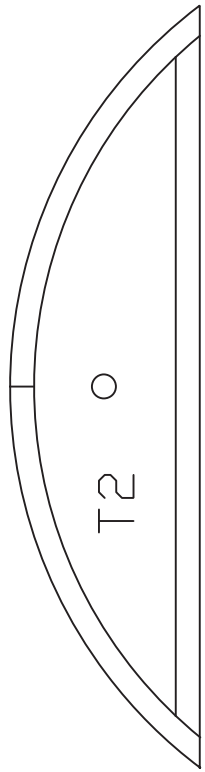


REAR VIEW OF SHEETED HATCH

T4

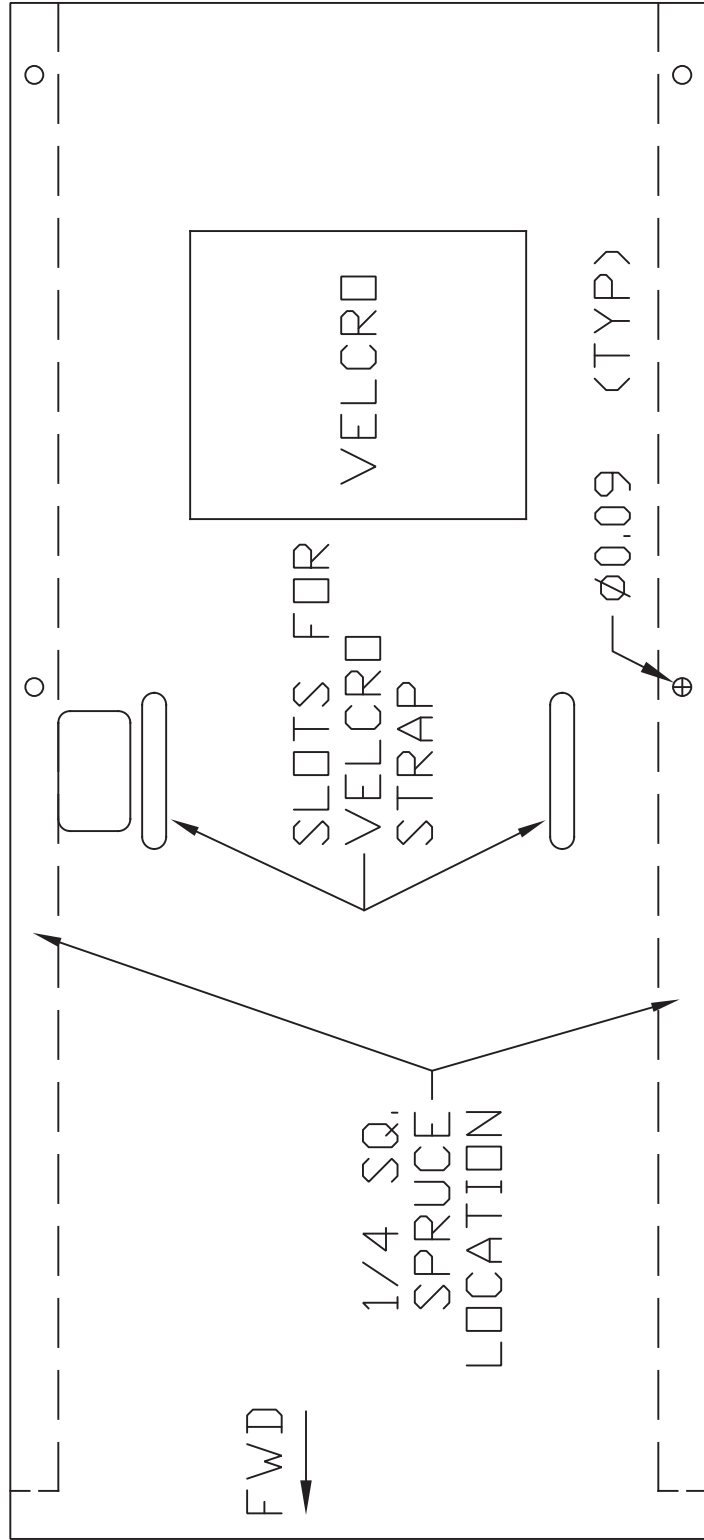


PRIOR TO
P SHEETING



FRONT VIEW OF SHEETED HATCH

FWD
→

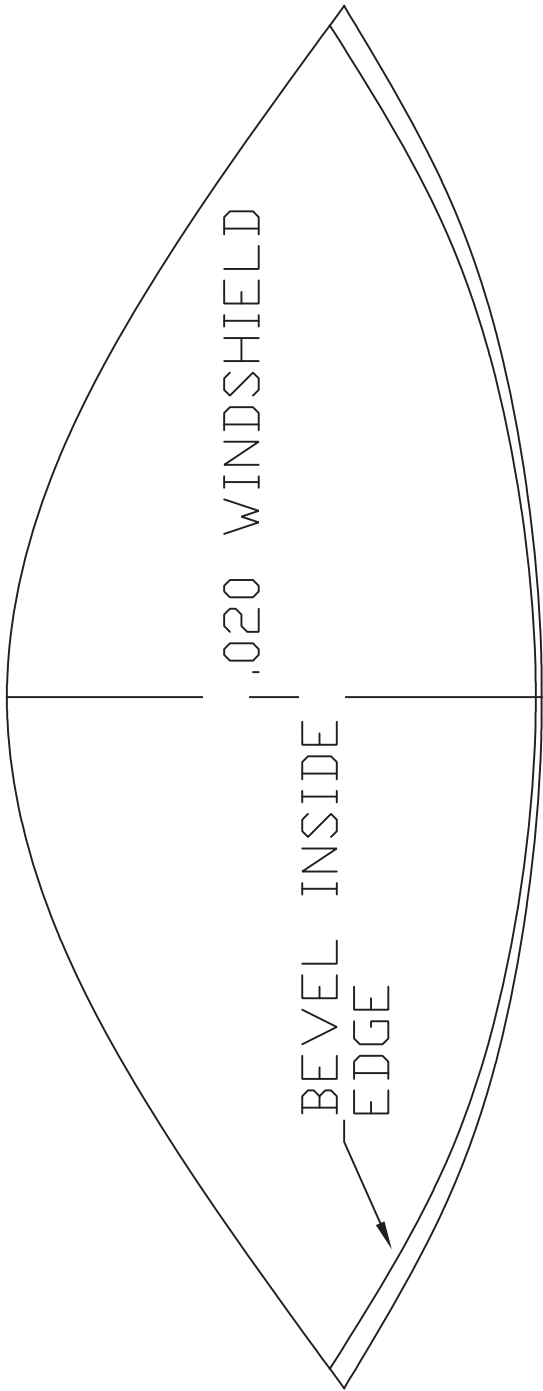


1/8 LITE PLY BATTERY SHELF

DIHEDRAL 1"
UNDER EACH
WINGTIP

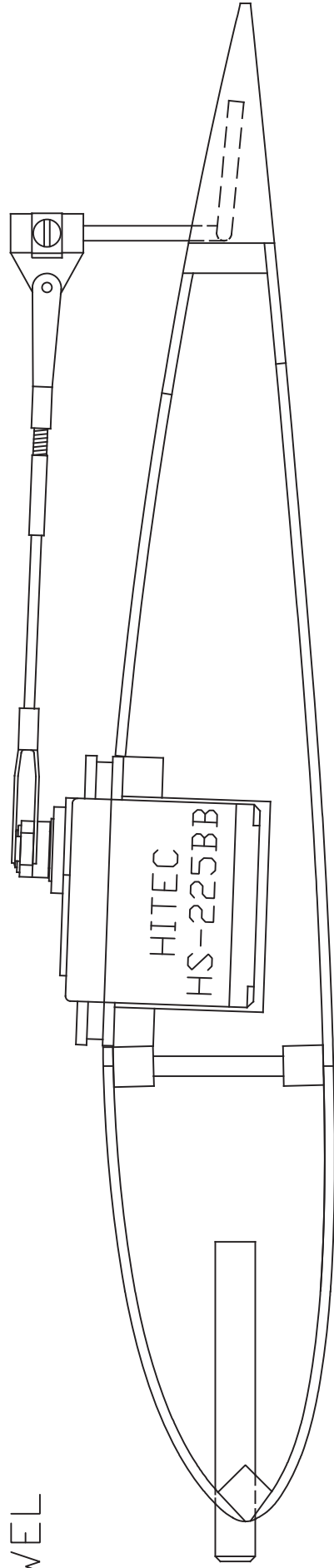
CONTR
 RUDDER
 ELEVA
 AILER

EXPONE
 ELEVA
 AILER

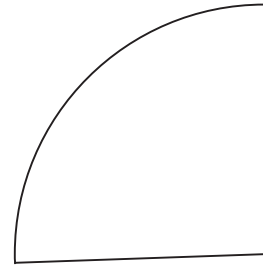


VERTICAL
 ED TO
 ALSA

A. DOWEL



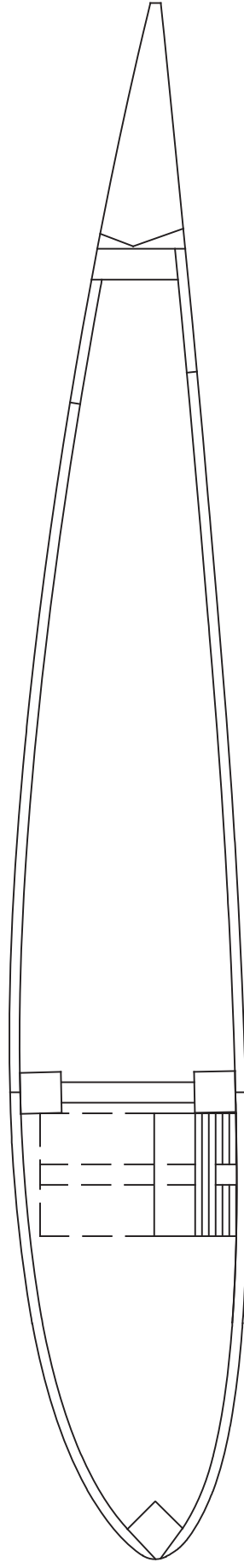
SECTION AT W1



W1 RIB
ANGLE GAUGE

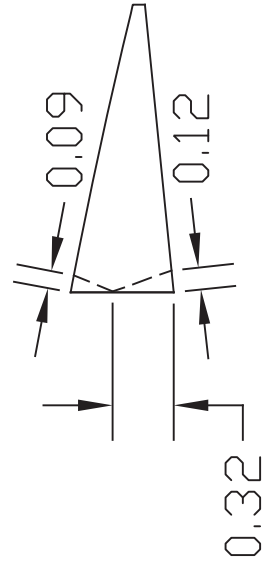
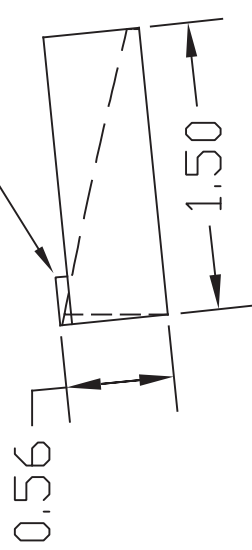
DU-BRO #103 STRIP AILERON HORN
DU-BRO #112 SOLDER LINK AND
#111 THREADED COUPLER SOLDERED TO
1/16 DIA. MUSIC WIRE.
DU-BRO #109 KWIK LINK
NOTE: SAME HARDWARE IS USED ON
RUDDER AND ELEVATOR PUSHROD ENDS.

RUDDER AND ELEVATOR PUSHROD ENDS.

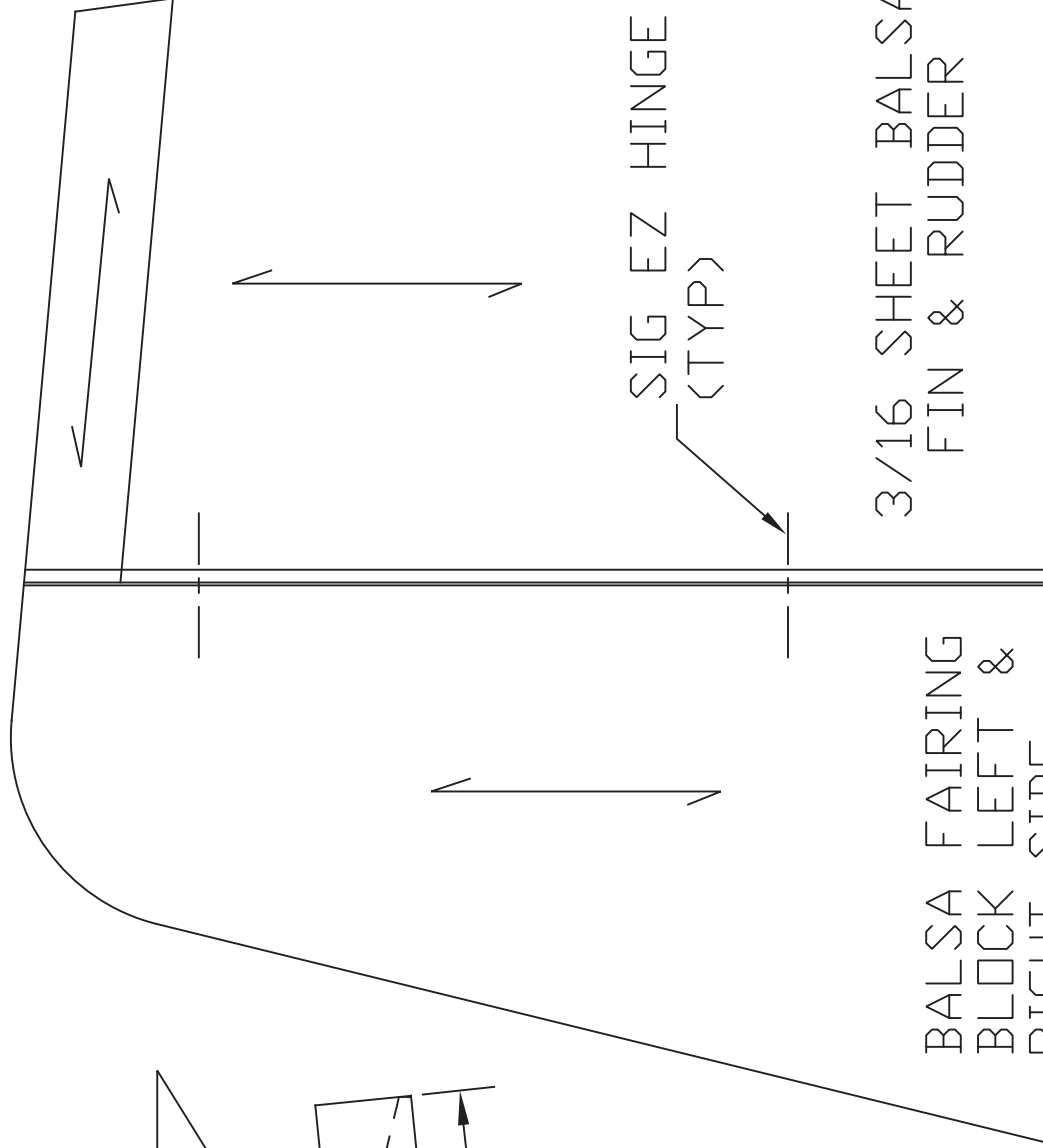


SECTION A-A

ADD 1/16 X 1/4 BALS
 STRIP TO 1/2 BALS
 THEN SHAPE TO DOTTED
 LINES TO GET TE STOCK



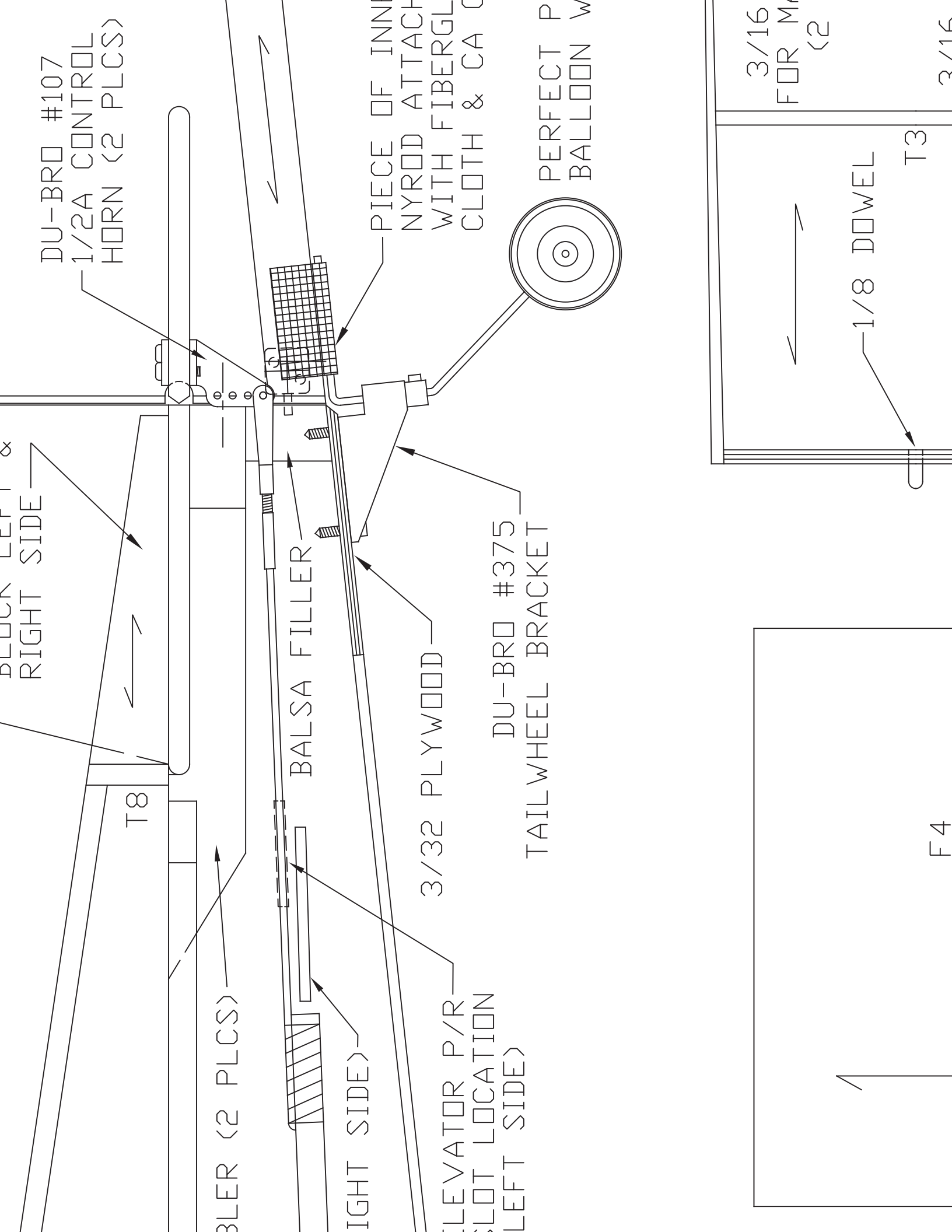
BEVEL TE STOCK
 TO DOTTED LINES
 FORAILERONS



BALSA FAIRING
 BLOCK LEFT &
 RIGHT SIDE

3/16 SHEET Balsa
 FIN & RUDDER

D
 ND
 RING

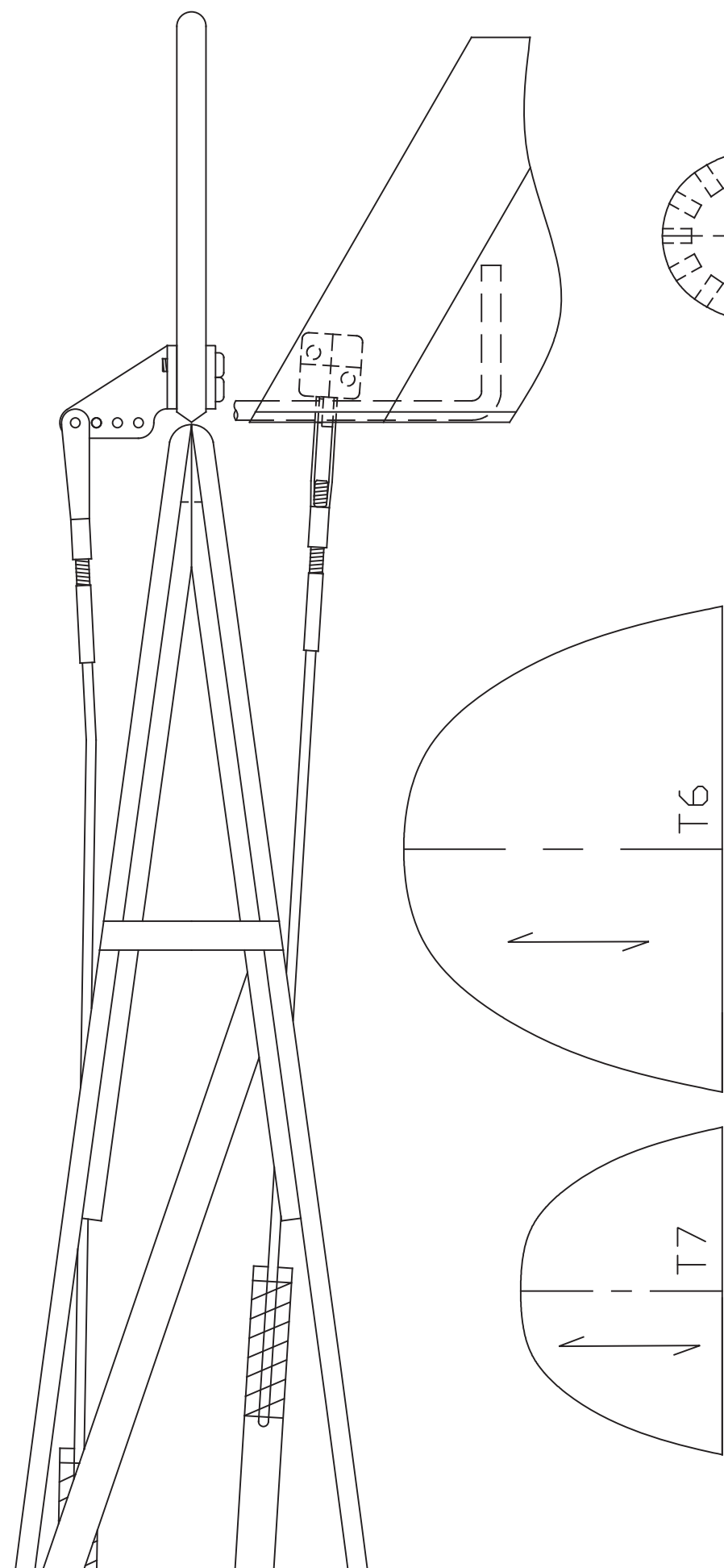


F4
1/8 LITE PLY

T2
1/8 HARD
BALSA
BOTTOM

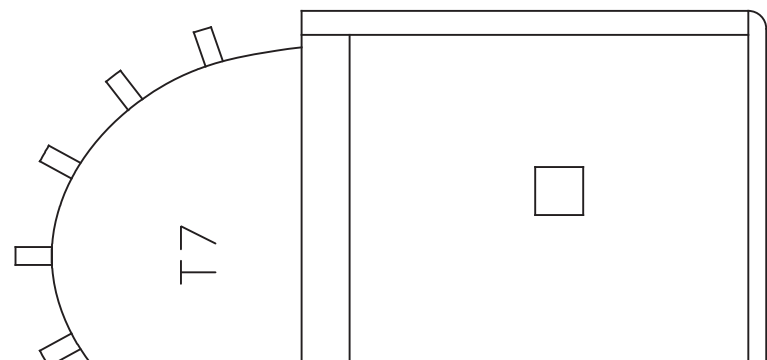
3/16
BALSA
POSIT
LOCA
PIECE

REMOVABLE HATCH P
INSTALLATION OF TOP

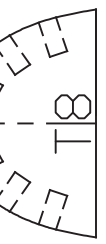




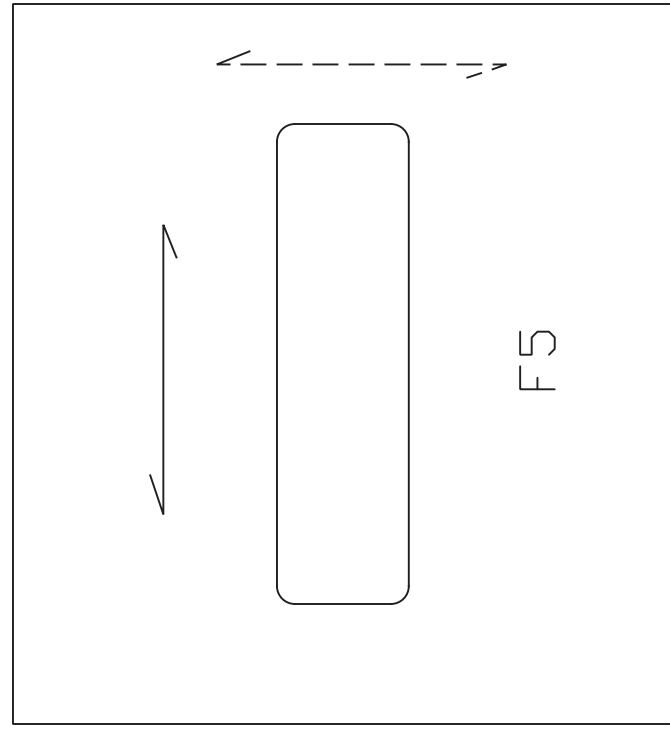
T6 AND T7 ARE 1/8 VERTICAL GRAIN Balsa



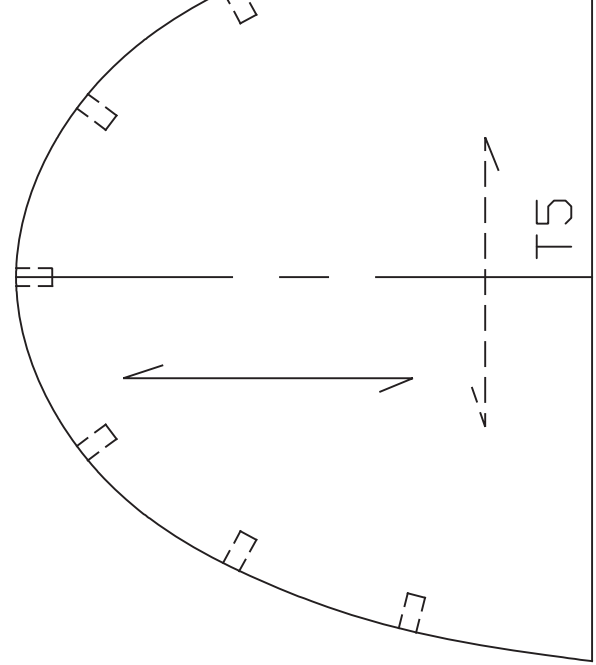
LARGE CROSS SECTION AT T7



3/16 VERTICAL GRAIN Balsa

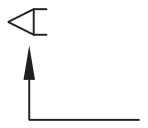


F5 MADE FROM 1/8 CROSS-GRAIN Balsa LAMINATED TO 1/16 VERTICAL GRAIN Balsa



T5 MADE FROM 1/8 VERTICAL GRAIN Balsa LAMINATED TO 1/16 CROSS-GRAIN Balsa

1/4 DIA.



NG D-TUBE)

1/4 TRIANGULAR
BALSA

B

B

W1

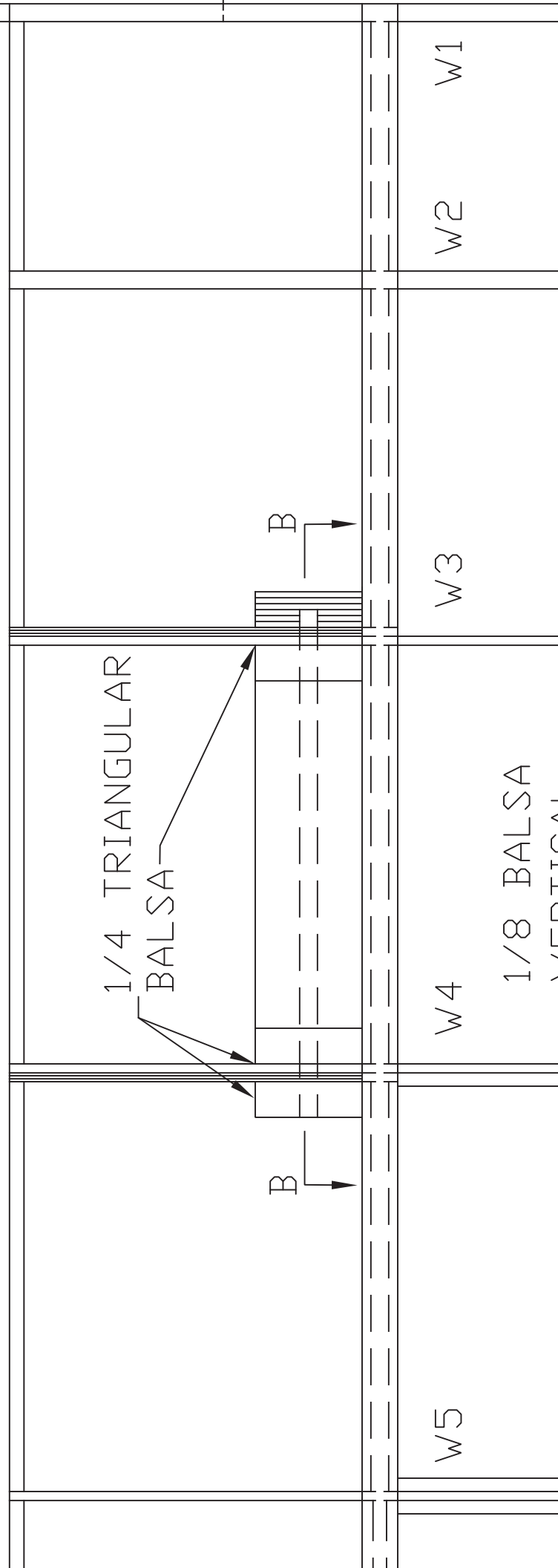
W2

W3

W4

W5

1/8 BALS
VERTICAL



VERTICAL
GRAIN WEBS
W1 - W5

1/16 Balsa
SHEETING
W1-W4 TOP &
BOTTOM

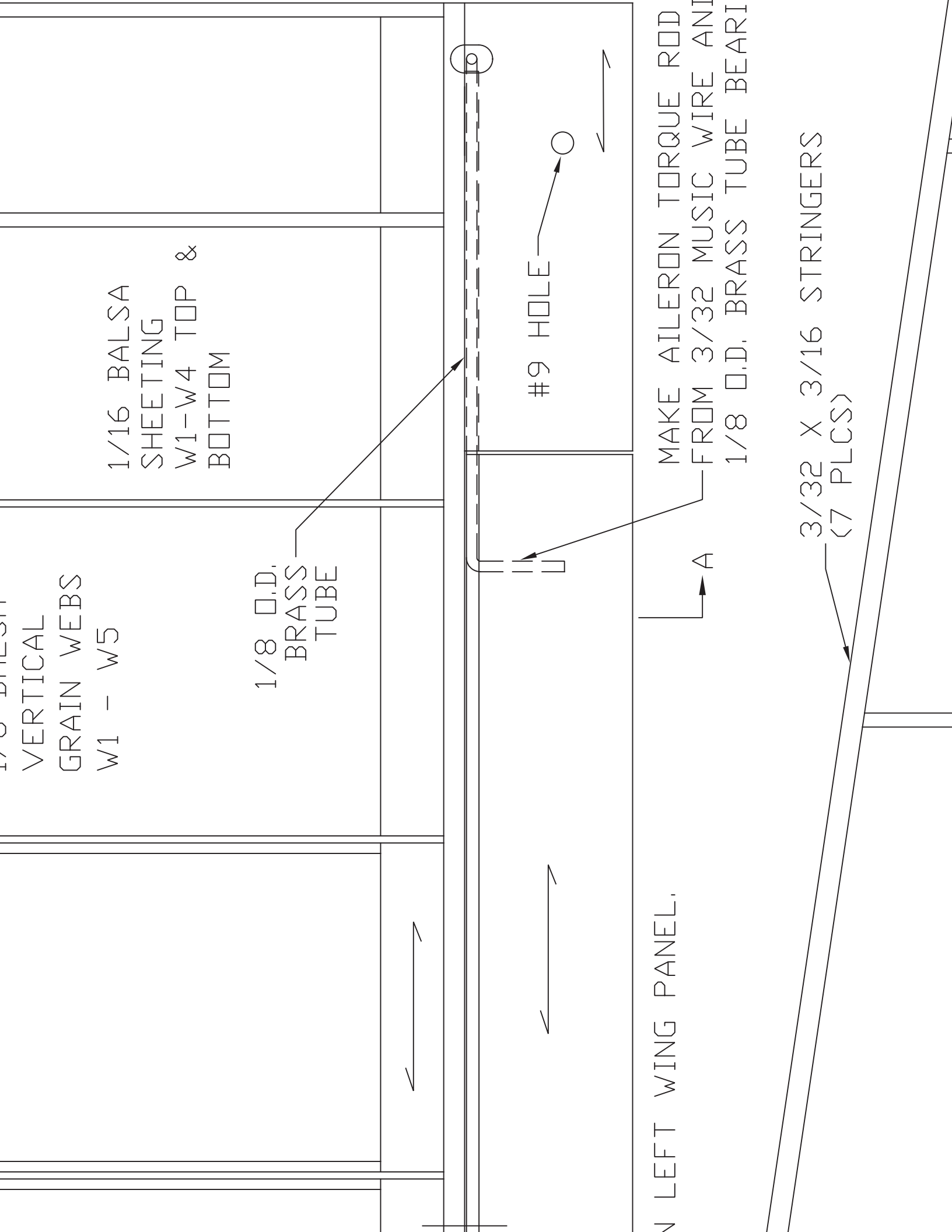
1/8 O.D.
BRASS
TUBE

#9 HOLE

IN LEFT WING PANEL.

MAKE AILERON TORQUE ROD
FROM 3/32 MUSIC WIRE ANI
1/8 O.D. BRASS TUBE BEARI

3/32 X 3/16 STRINGERS
(7 PLCS)



T6

T7

SERVO RAIL LOCKS
(2 PLCS)

1/8 Balsa STABILIZER DOUBL

1/8 Balsa FUSELAGE SIDES

RUDDER P/R SLOT (RIG)

1/4 TRIANGULAR Balsa

EL
SL
(LE

3/32 Balsa BOTTOM
SHEETING (CROSS-GRAIN)

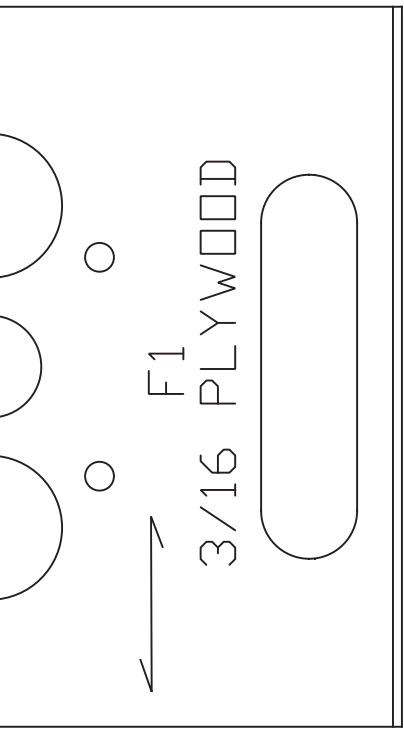
SODA STRAW
ANTENNA TUBE

1/4 SQ. SPRUCE PUSHRODS
ENDS ARE 1/6 MUSIC WIRE
WITH L BEND INSERTED INTO
HOLE IN SPRUCE AND ATTACHED
WITH FISHING LINE & GLUE

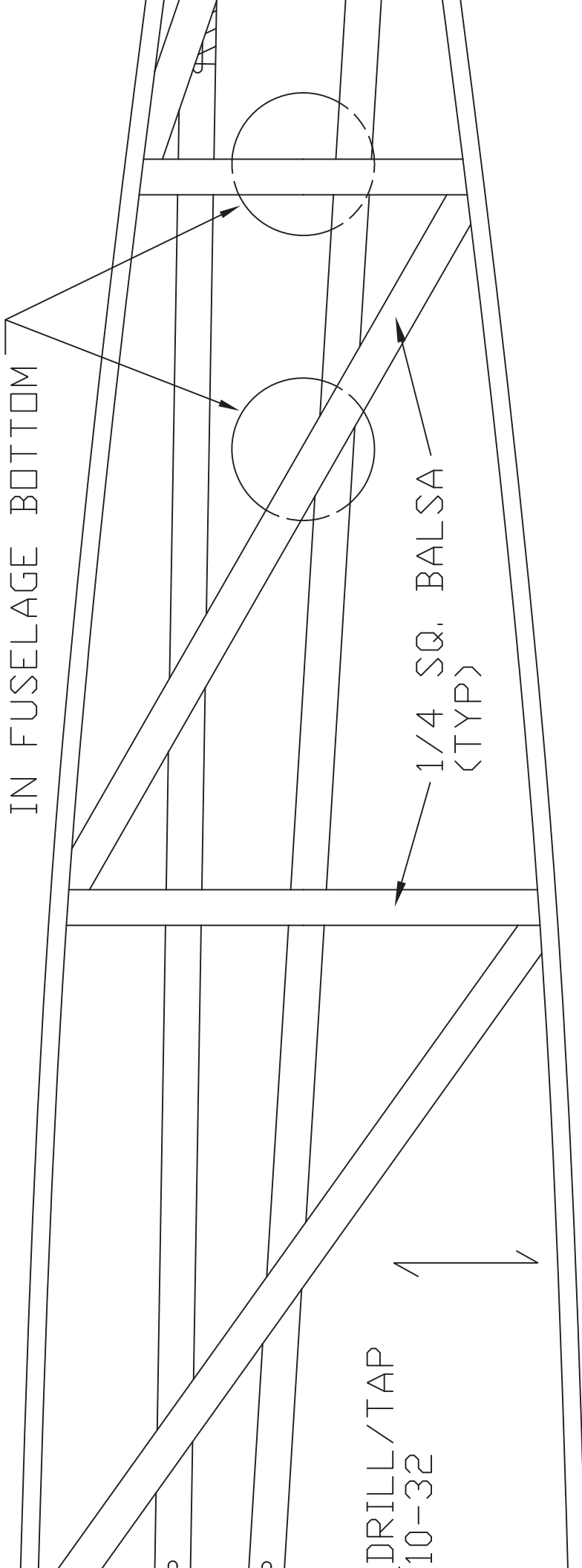
ANGLE
GE

∅0.15
(#25)



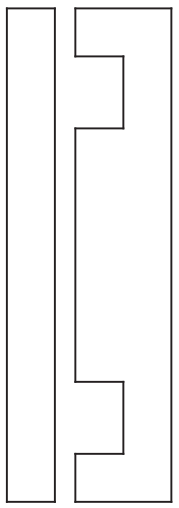


1" DIA. COOLING AIR EXITS
IN FUSELAGE BOTTOM



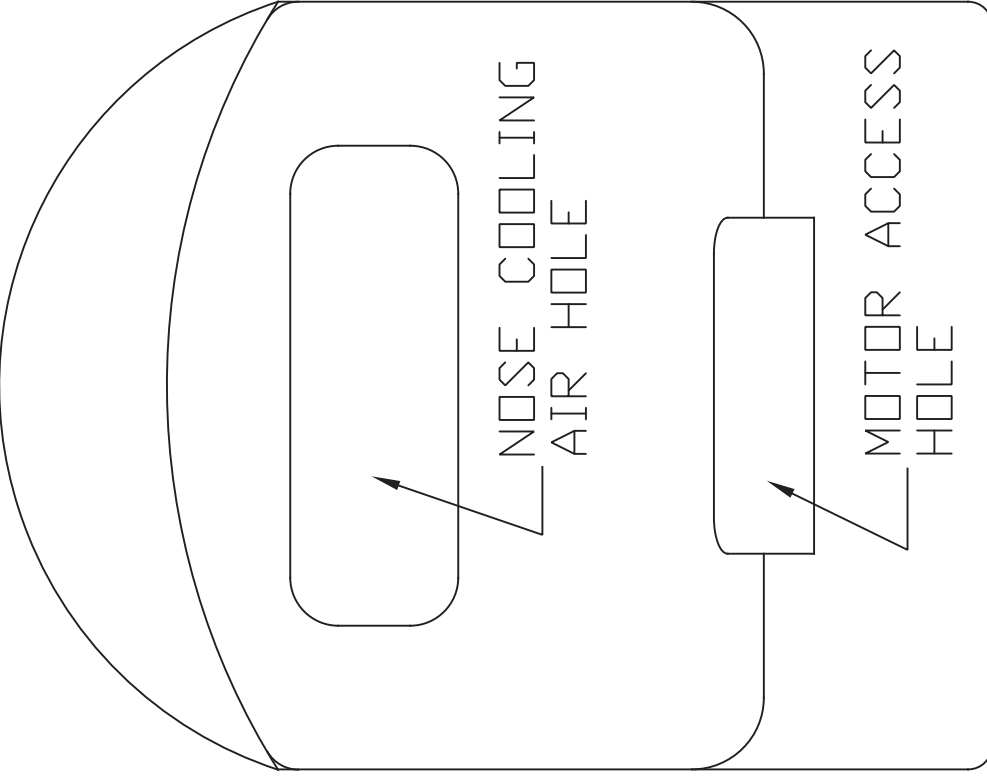
DRILL/TAP
10-32

BECK NOT SHOWN IN TOP VIEW.

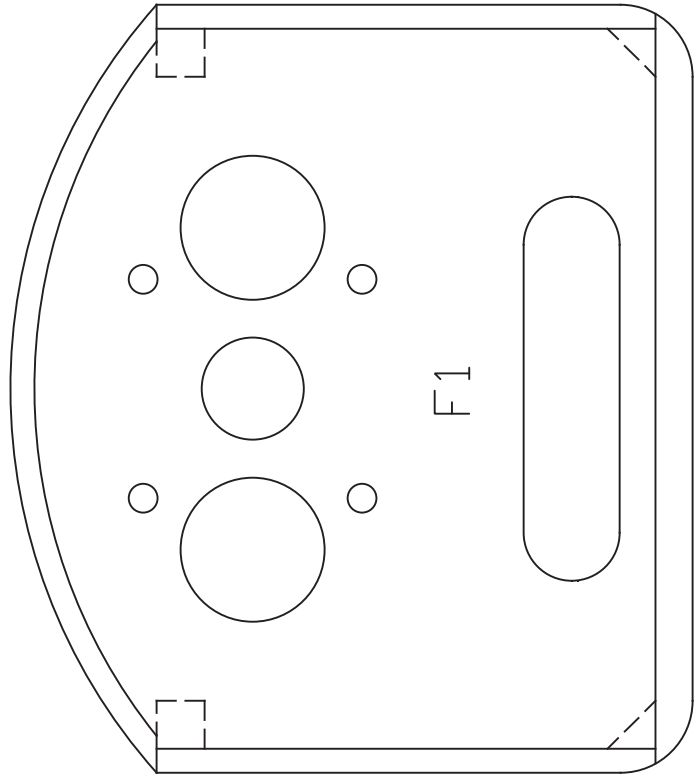


1/16 PLYWOOD

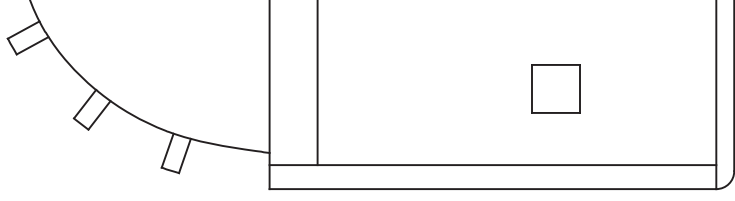
1/16 PLYWOOD SERVO
RAIL LOCKS - 2 EA. REQ'D



FRONT VIEW OF
FUSELAGE BACK TO T4



FUSELAGE SECTION
AT FRONT OF F1



FUSELAGE
SECTION

1/4 SQUARE BALSA LE (SAND FLUSH WITH RIBS BEFORE SHEETING

1/16 BALSA
D-TUBE SHEETING
TOP & BOTTOM TO
CENTER OF SPAR
CAPS

1/4 SQUARE
SPRUCE SPAR
CAPS

W8

W7

W6

NOTE: USE 3/16
SHIMS UNDER

3/32 BALSA
VERTICAL

NOTE: USE 5/16" SHIMS UNDER BOTTOM SPAR CAP DURING INITIAL CONSTRUCTION.

ALL CAP STRIPS 1/6 X 1/4 TOP & BOTTOM

VERTICAL GRAIN WEBS W5 - W8

3/16 SHEET Balsa TE

1/16 X 3/4 Balsa TE SHEETING

1/2 SHEET Balsa TE (RIGHT)

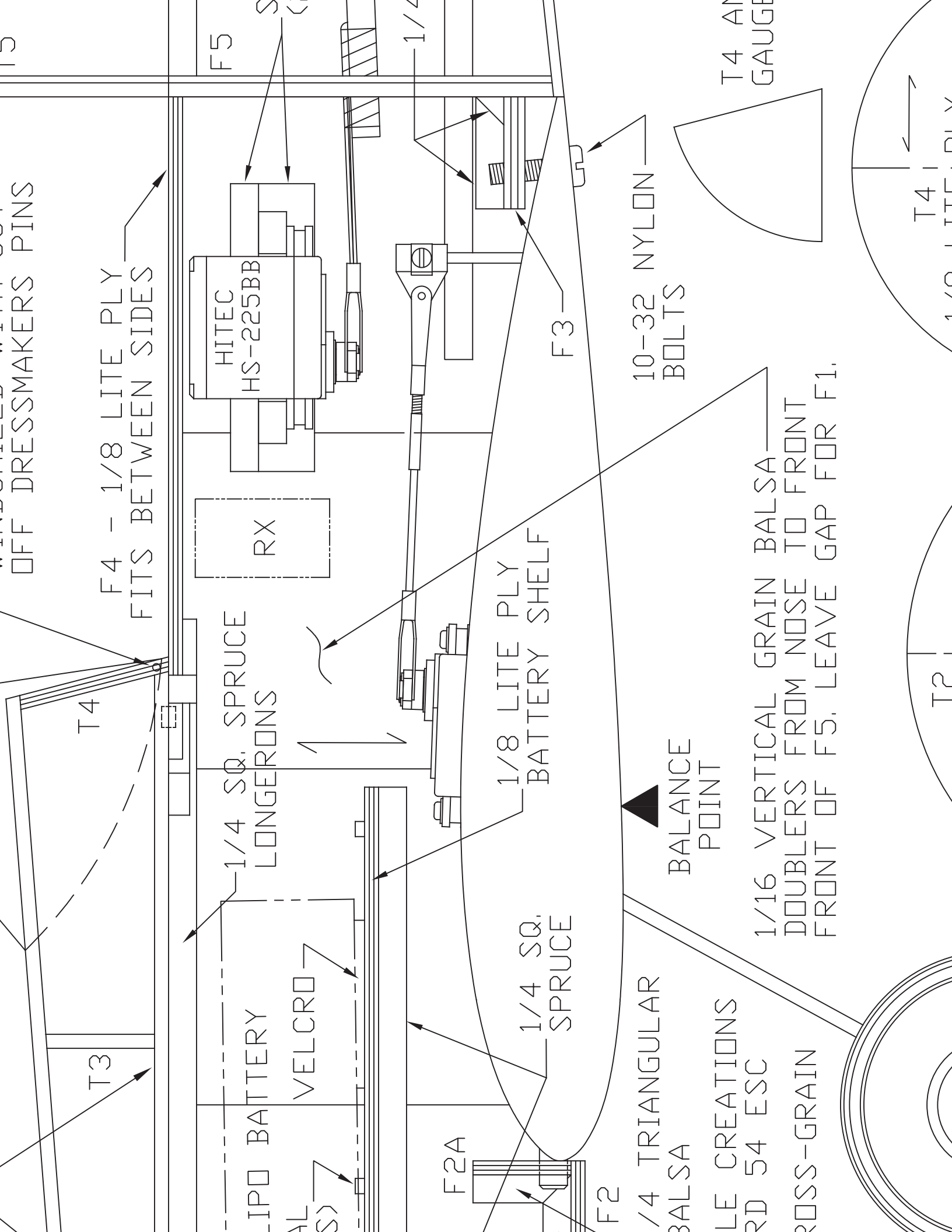
SIG EZ HINGE (CA HINGE) LOCATIONS

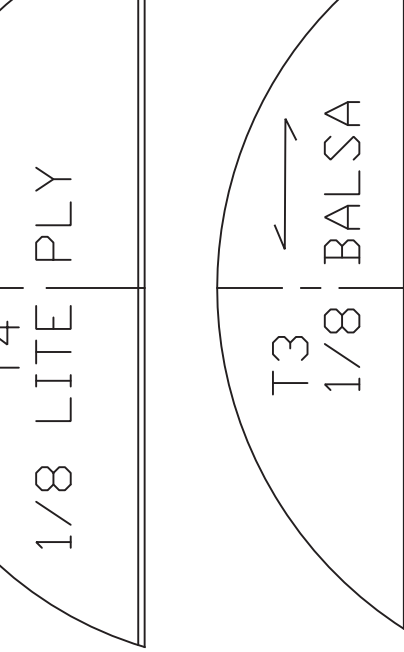
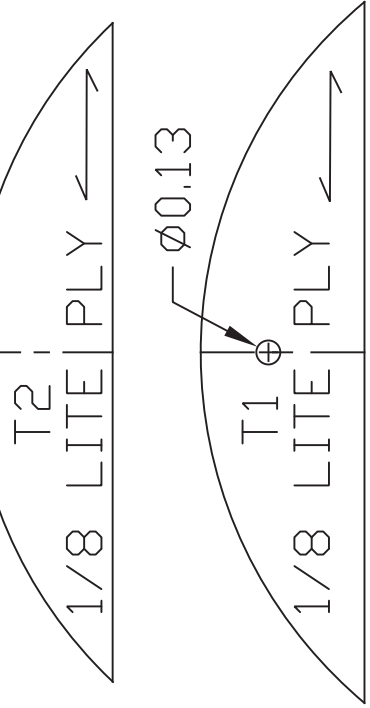
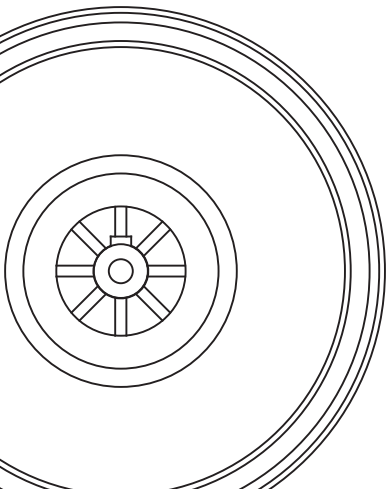
SHEETING, CENTER SECTION SHEETING, AND CAP STRIPS NOT SHOWN ON

.030 WINDSHIELD

ATTACH ENDS OF WINDSHIELD WITH CUT OFF DRESSMAKERS PINS

T5





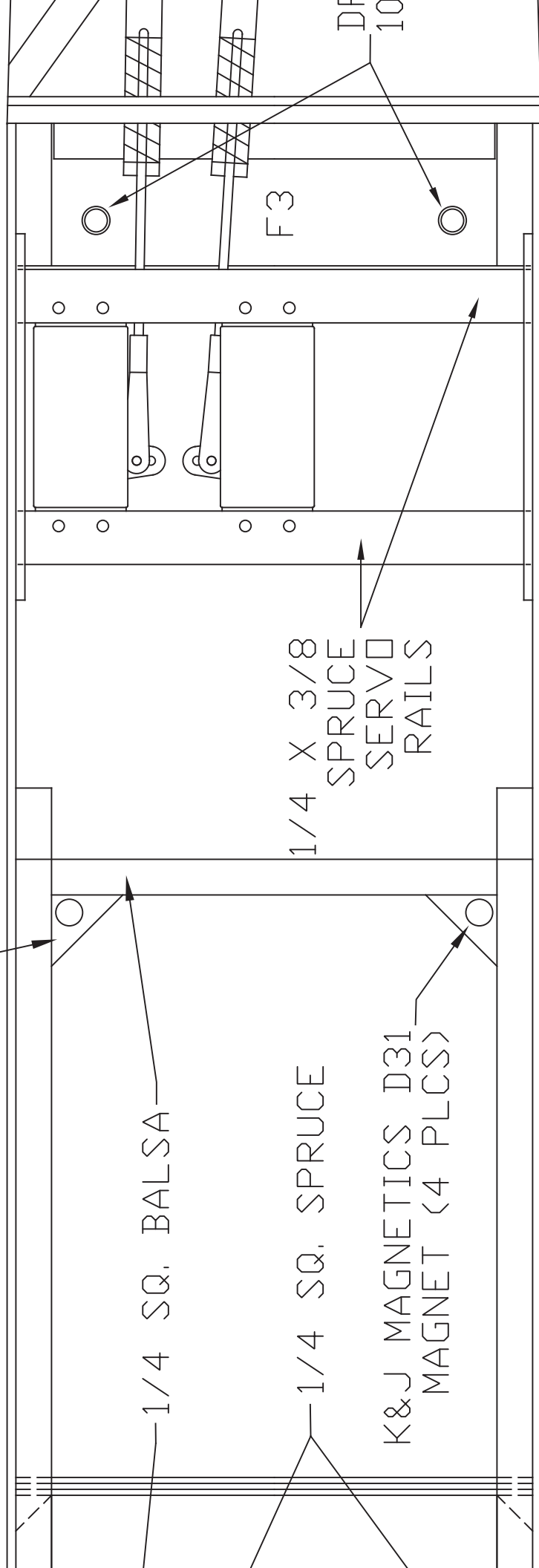
3 LITE PLY MAGNET MOUNT

1/4 SQ. BALSAs

1/4 SQ. SPRUCE

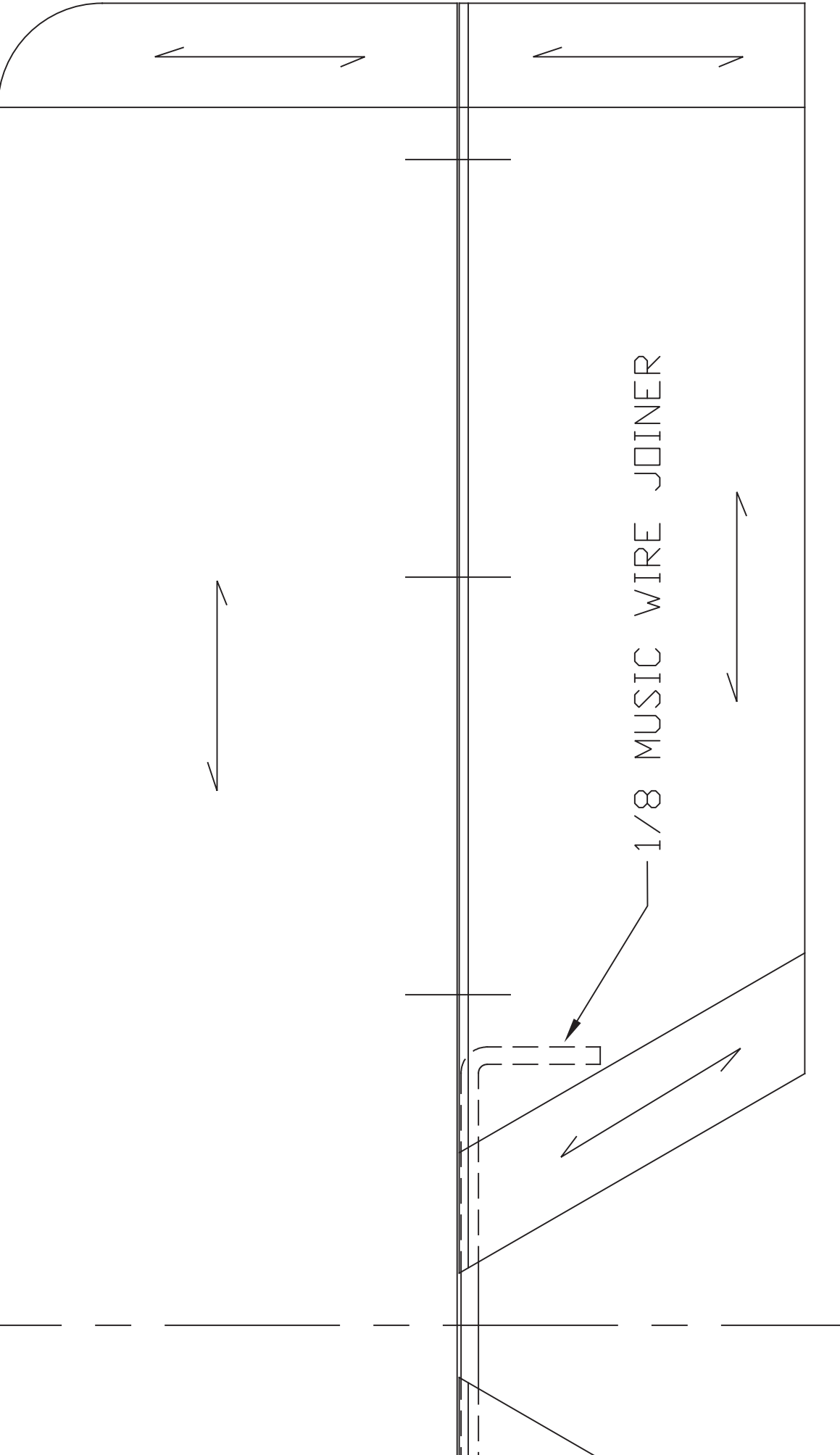
K&J MAGNETICS D31
MAGNET (4 PLCS)

1/4 X 3/8
SPRUCE
SERVO
RAILS



ACCESS

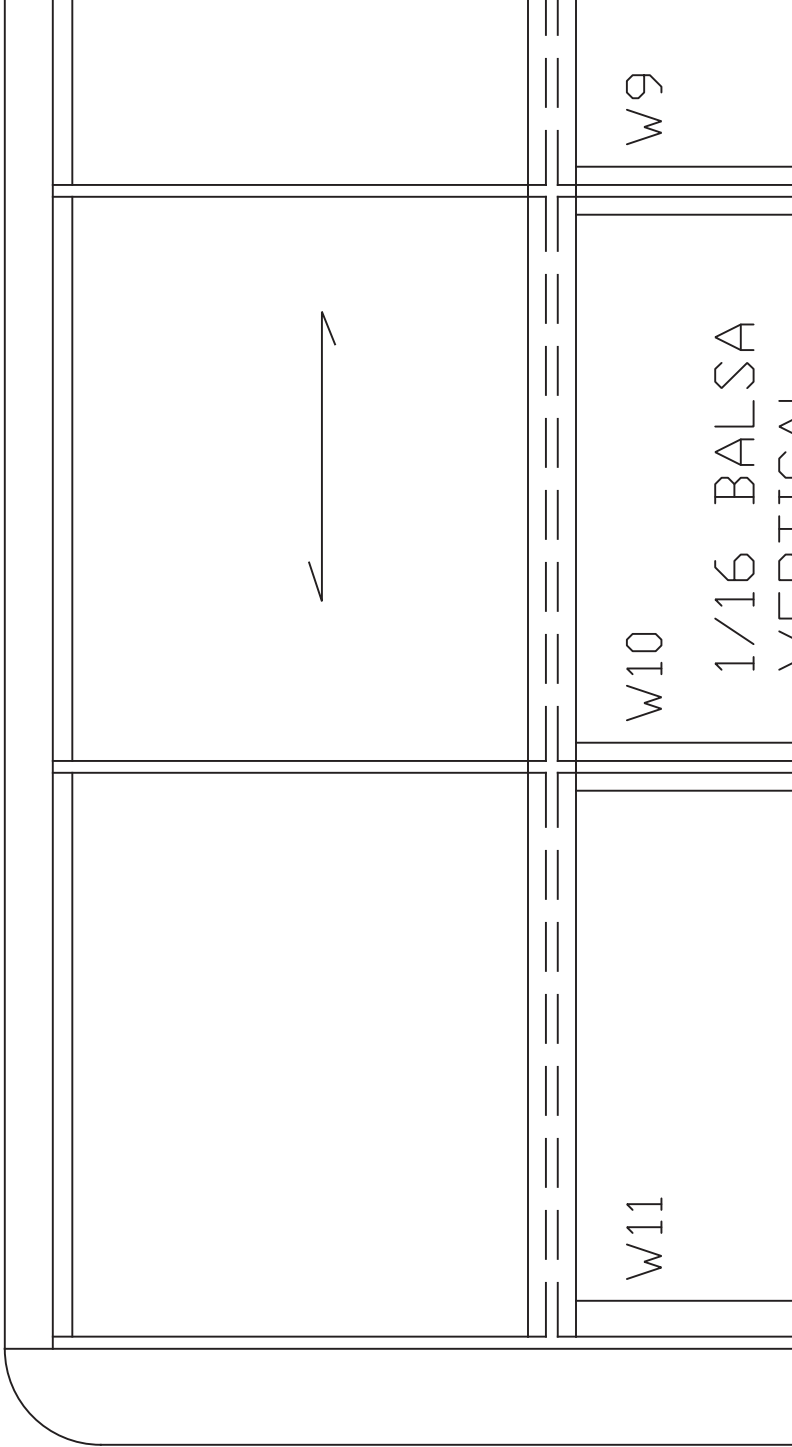
NOTE: BATTERY FLOOR, F4, AND FUSELAGE TOP DEC

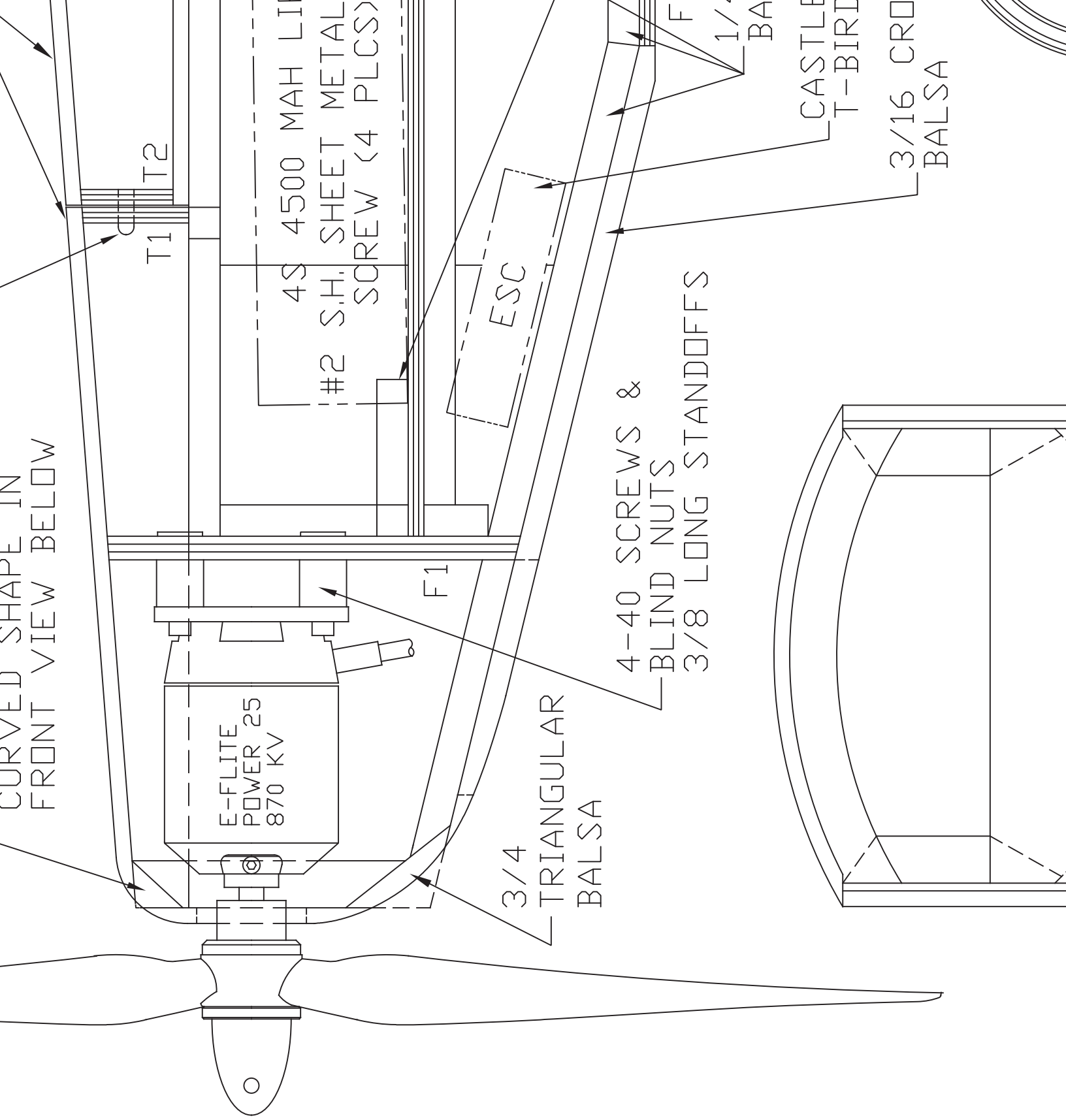


1/8 MUSIC WIRE JOINER



WINGTIP
CROSS





CURVED SHAPE IN FRONT VIEW BELOW

T1
T2

4S 4500 MAH LIPO
#2 S.H. SHEET METAL SCREW (4 PLCS)

ESC

F1

E-FLITE
POWER 25
870 KV

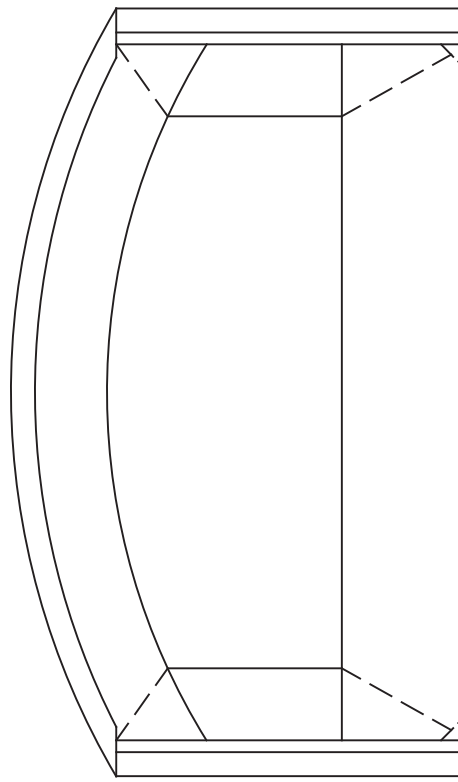
3/4 TRIANGULAR BALSAs

4-40 SCREWS & BLIND NUTS 3/8 LONG STANDOFFS

1/2 BA

CASTLE T-BIRD

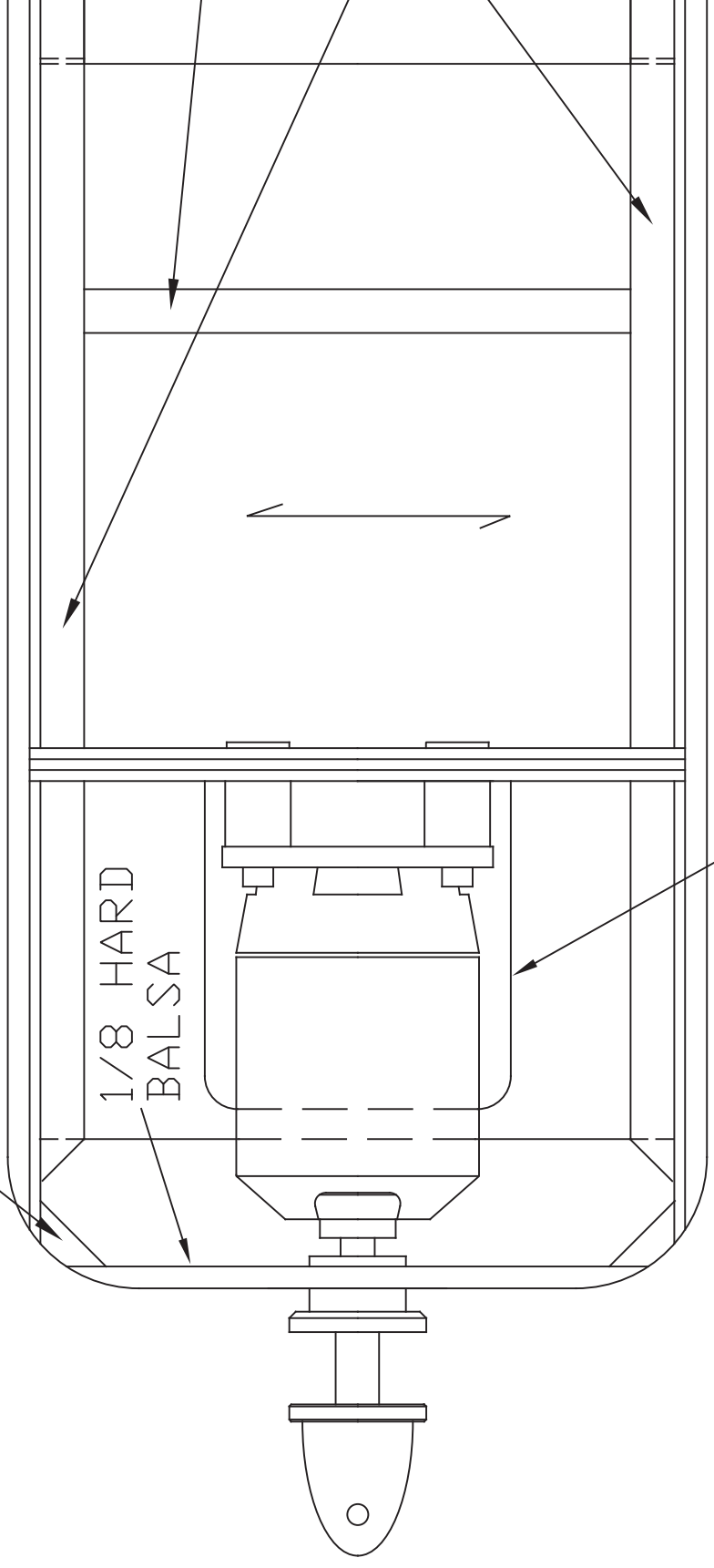
3/16 CRO BALSAs



DU-BRO 2.75"
LOW BOUNCE
WHEELS

FRONT VIEW OF FUSELAGE
BEFORE 1/8 Balsa FRONT
PIECE HAS BEEN INSTALLED
AND BEFORE ROUNDING OFF
ALL FOUR CORNERS

3/8 TRIANGULAR Balsa (2 PLCS) 1/8



COOLING AIR EXIT & MOTOR A
HOLE IN FUSELAGE BOTTOM

3/16 SHEET Balsa
STABILIZER & ELEVATOR

