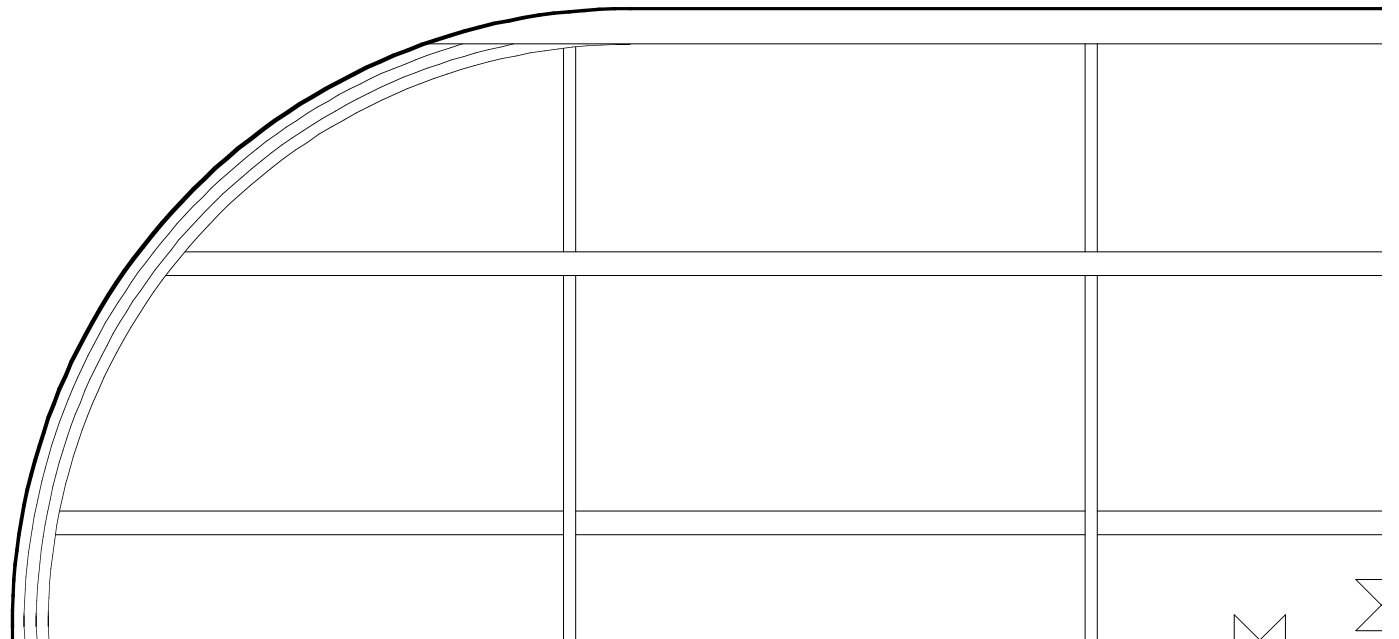
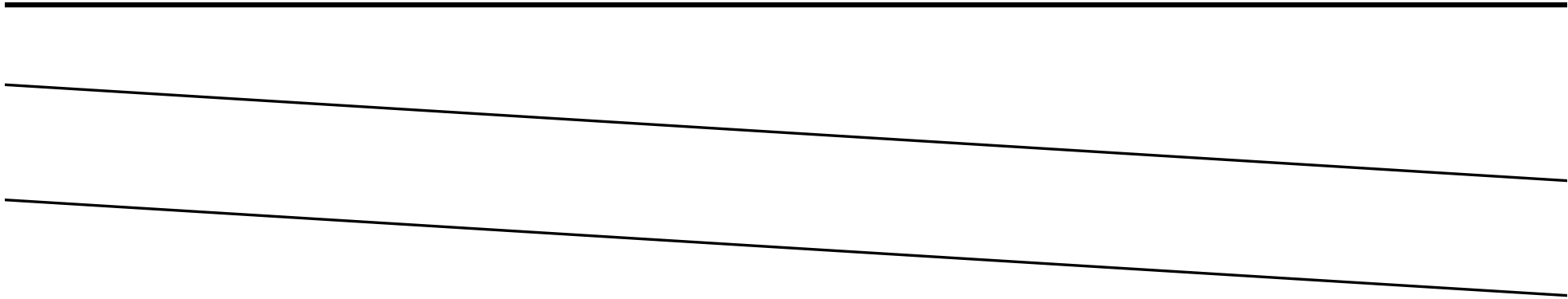
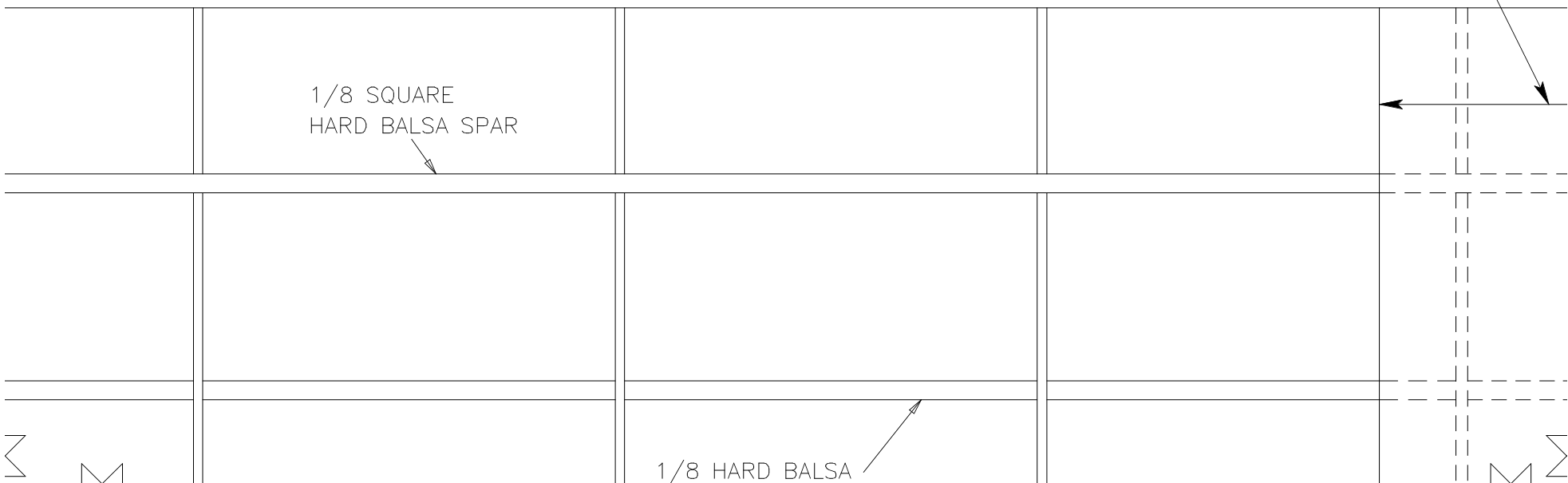
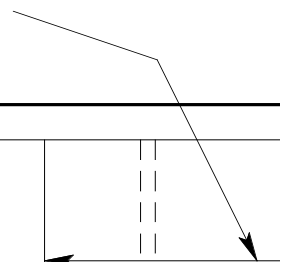


THESE MARKS ARE "BOW TIES" DESIGNED TO REGISTER THE OVERLAPING SEAMS BETWEEN SHEETS. TRIM ONE SIDE OF EACH SEAM TO THE EDGE OF THE PRINTED MARKING, OVERLAP THE ADJACENT SHEET, ALIGN AND TAPE IN PLACE.





1/16 CENTRE SECTION SHEETING
TOP AND BOTTOM GRAIN
SPANWISE

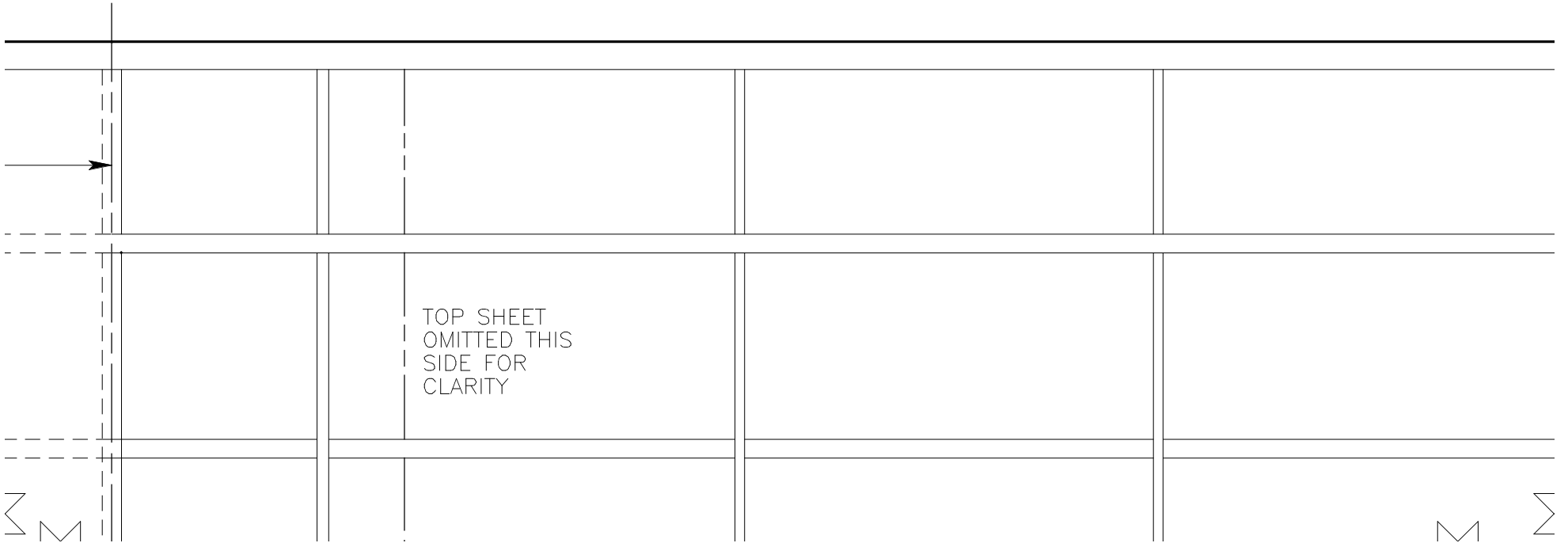


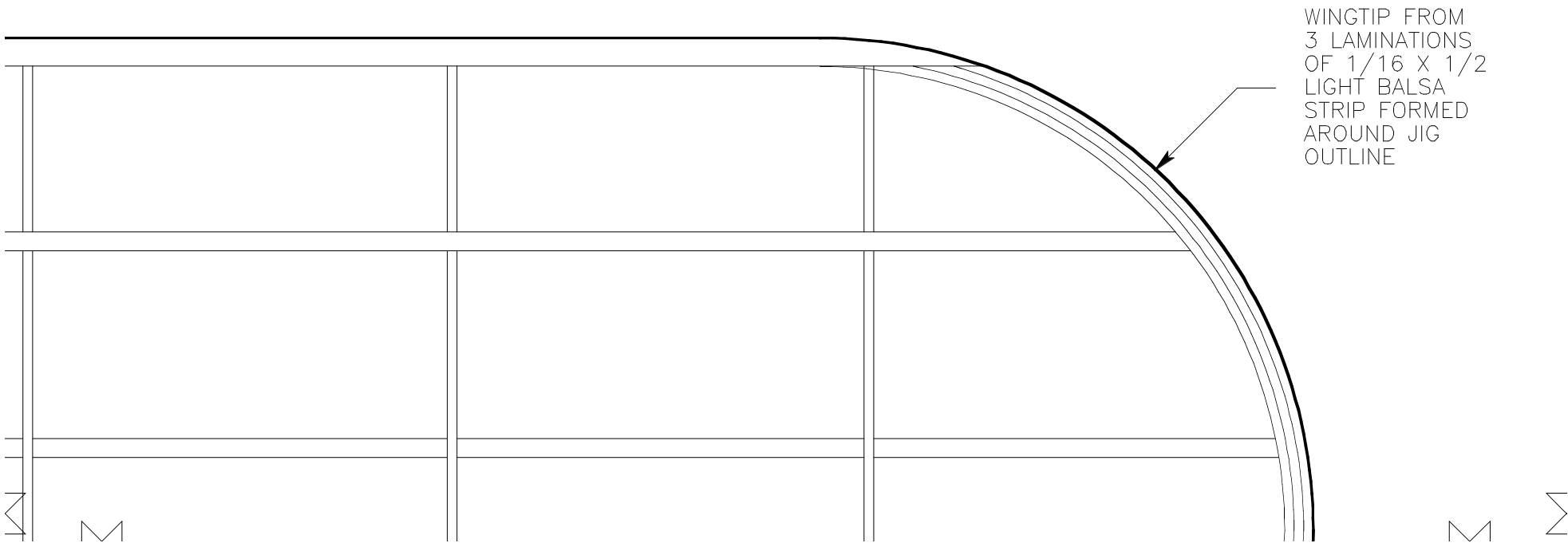
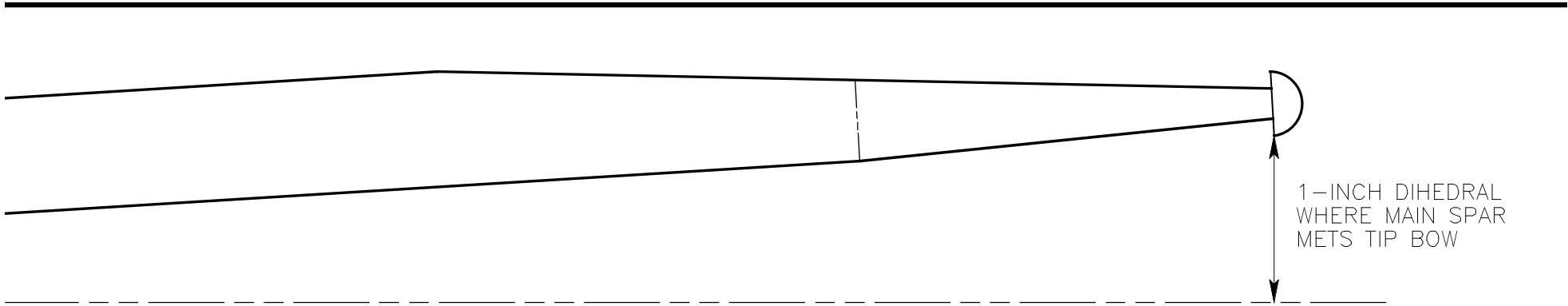
1/8 SQUARE
HARD BALSA SPAR



1/8 HARD BALSA

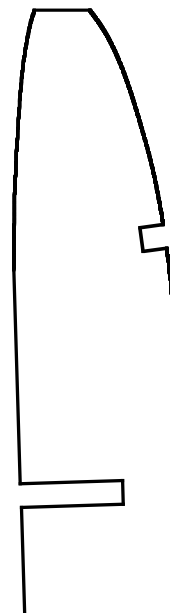
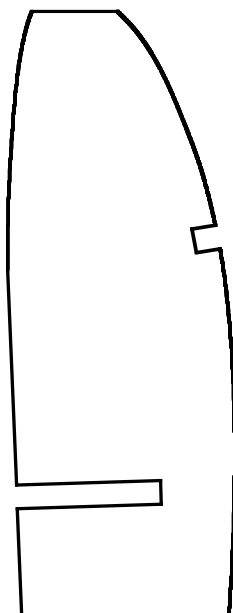
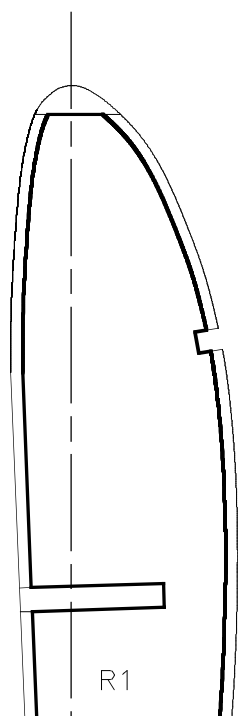


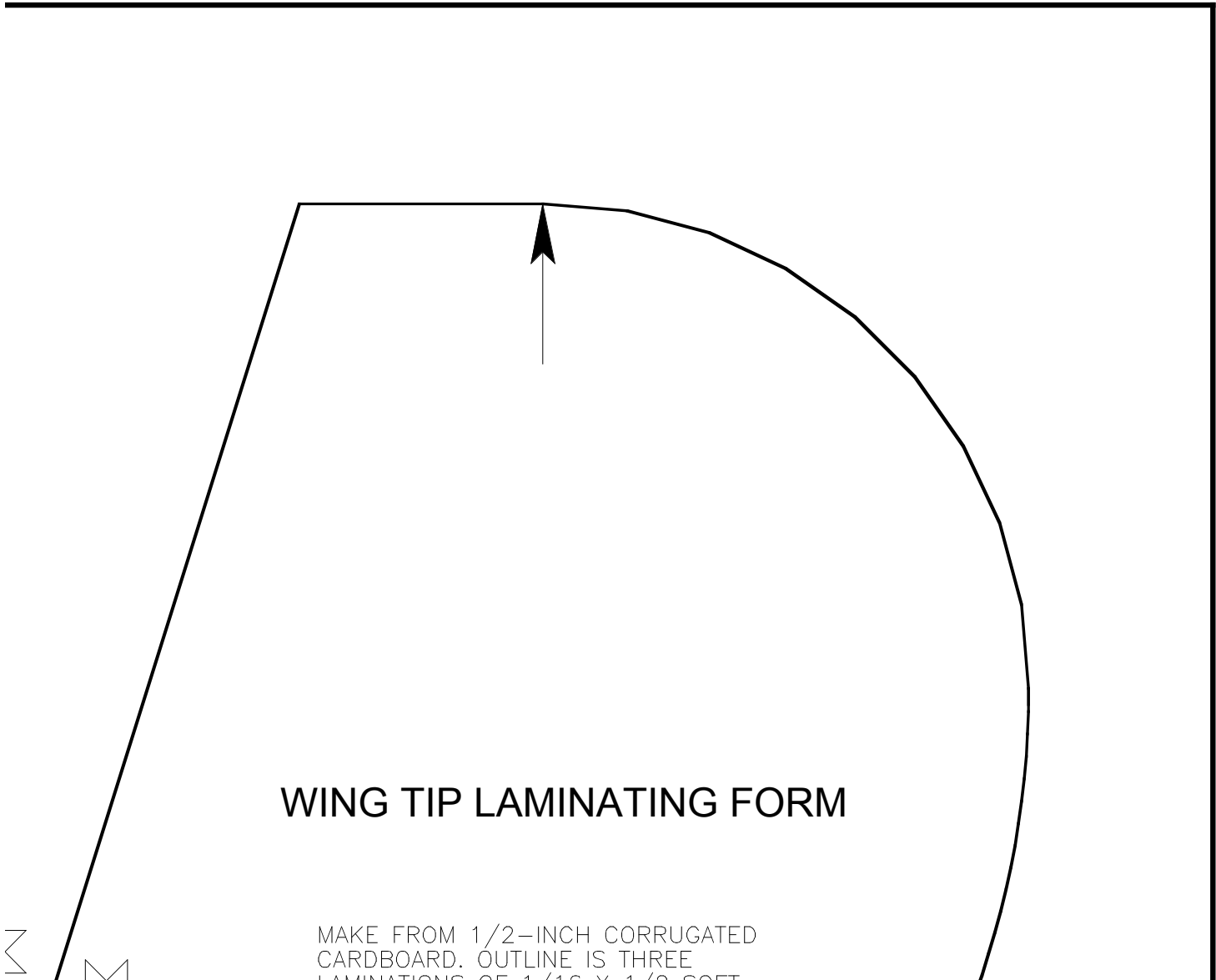






RIB R1 & 2 1/16 Balsa,
TRIM AS SHOWN FOR
1/16 CENTER SHEETING

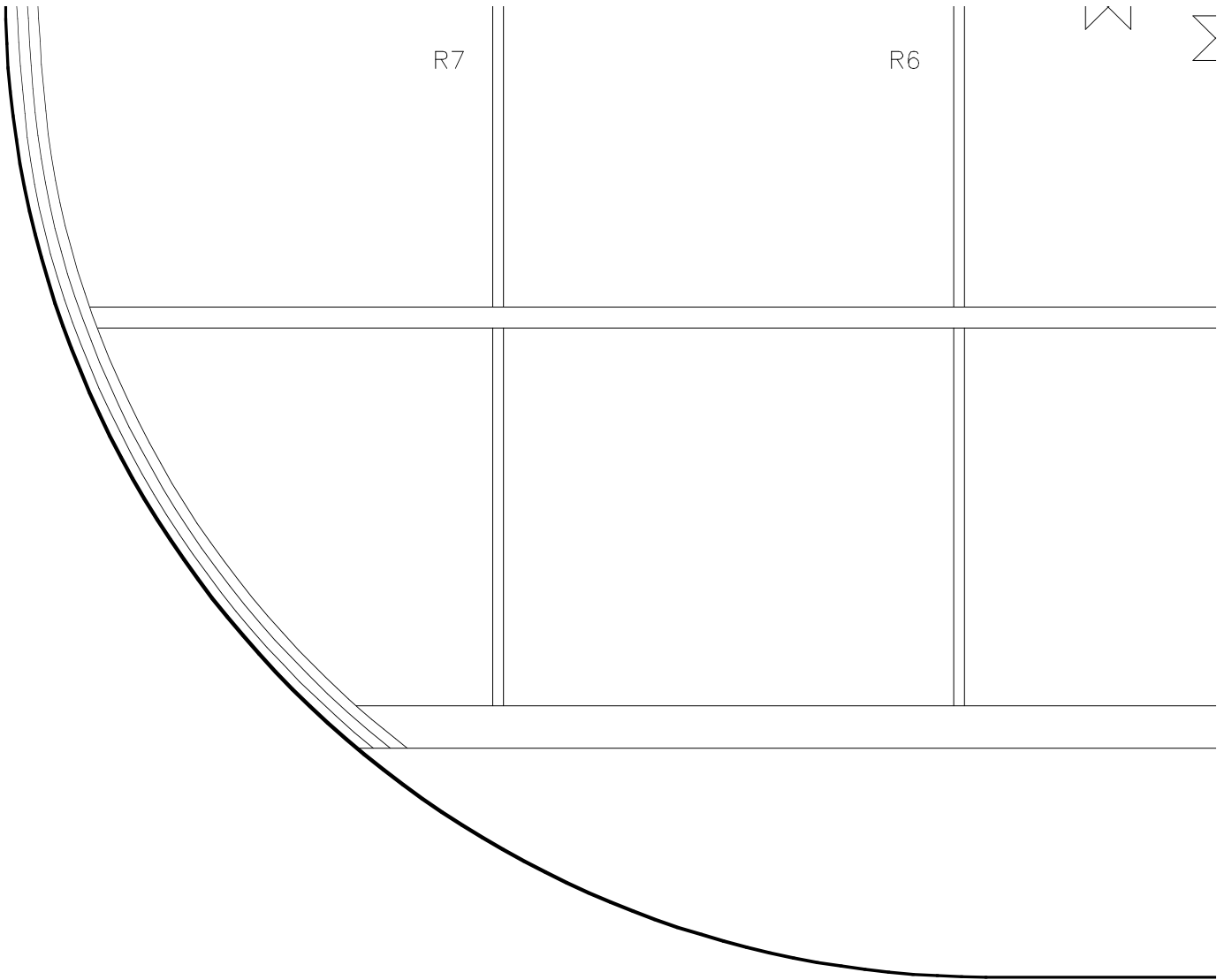




WING TIP LAMINATING FORM

MAKE FROM 1/2-INCH CORRUGATED
CARDBOARD. OUTLINE IS THREE
LAMINATIONS OF 1/16 X 1/8 COFT

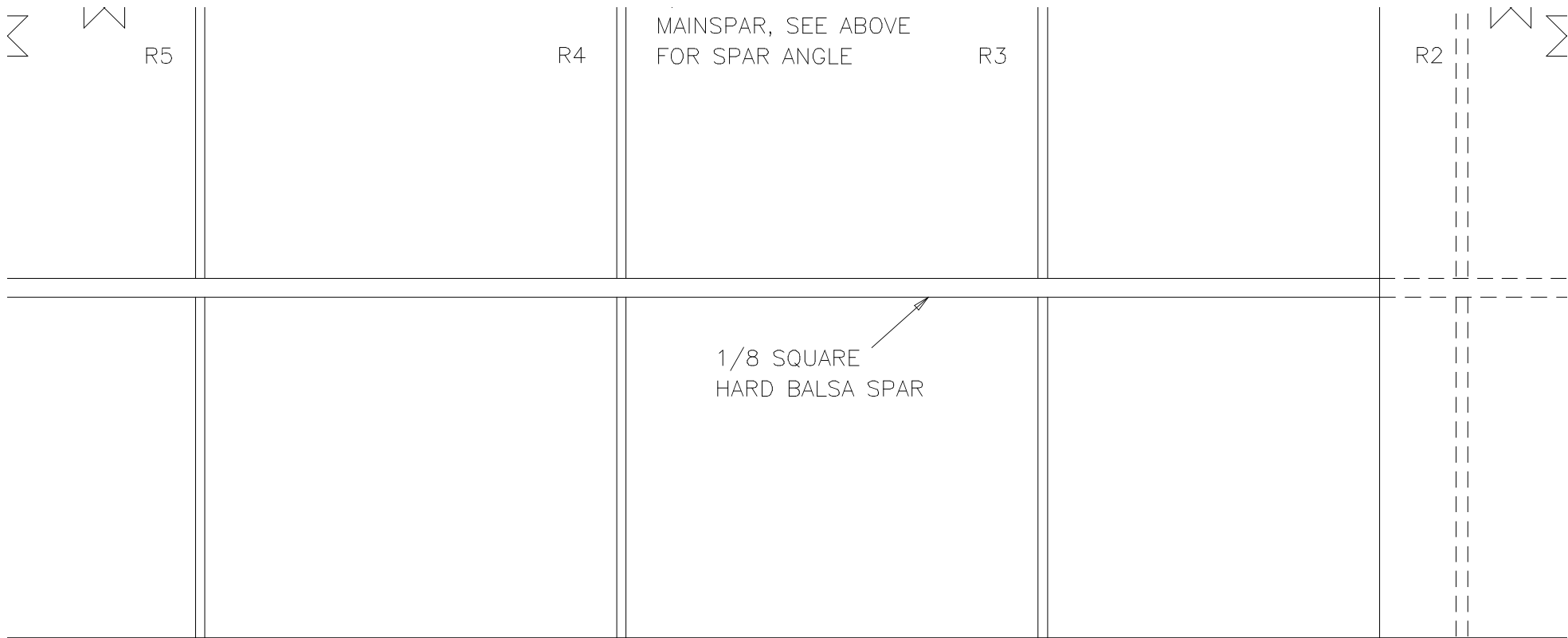




R7

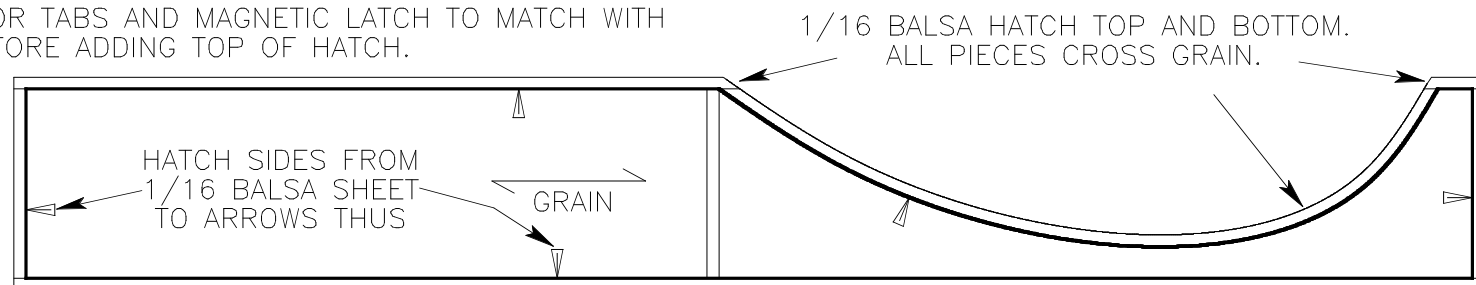
R6

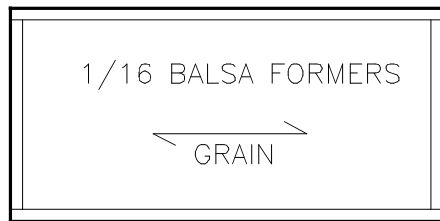
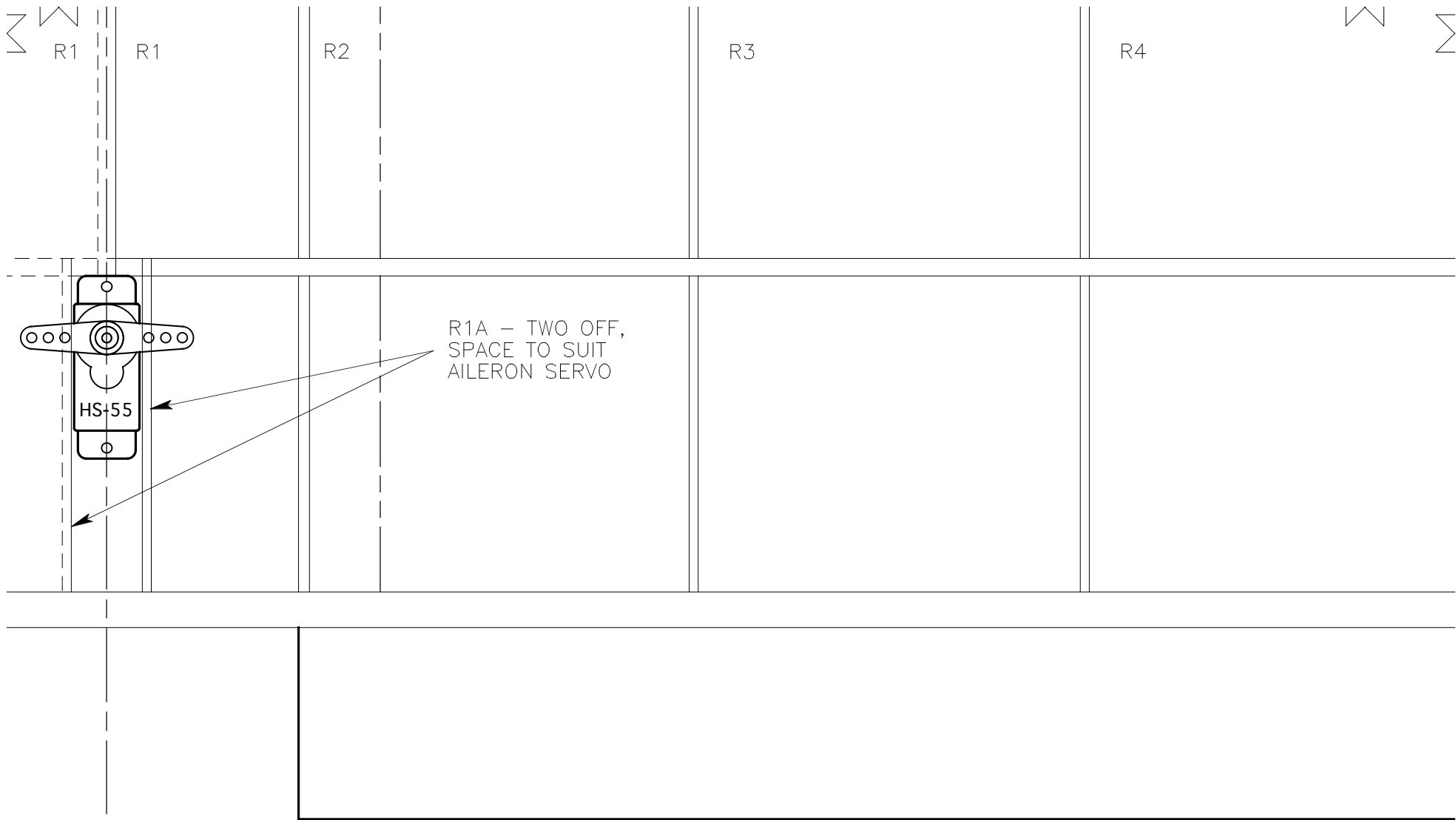




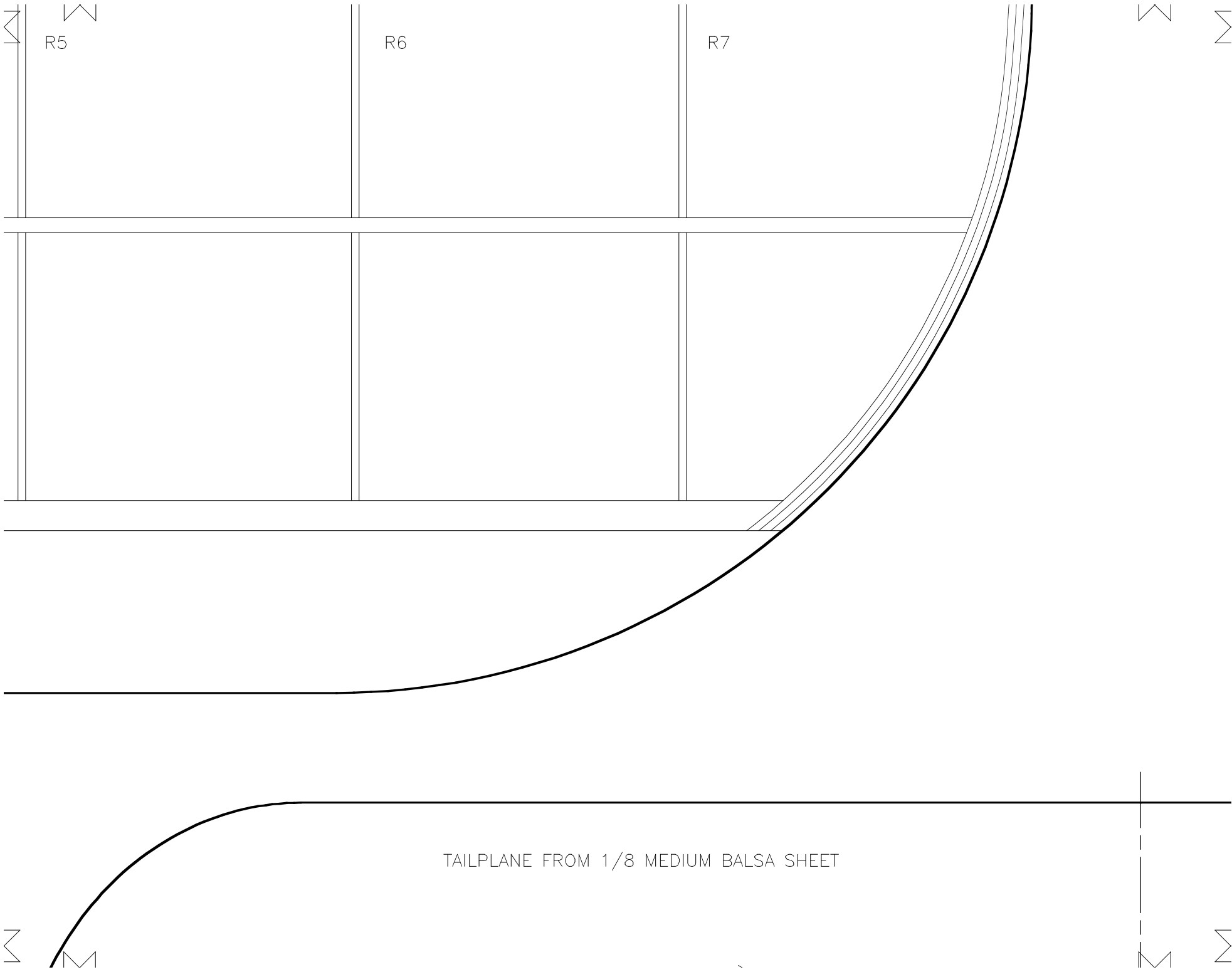
1/8 BALSA AILERONS
SPANWISE GRAIN THUS

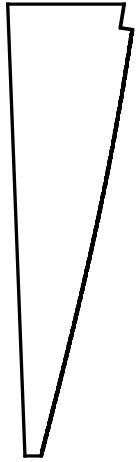
HATCH STRUCTURE — GLUE FORMERS AND SIDES TO BASE. FIT
HATCH LOCATOR TABS AND MAGNETIC LATCH TO MATCH WITH
FUSELAGE BEFORE ADDING TOP OF HATCH.



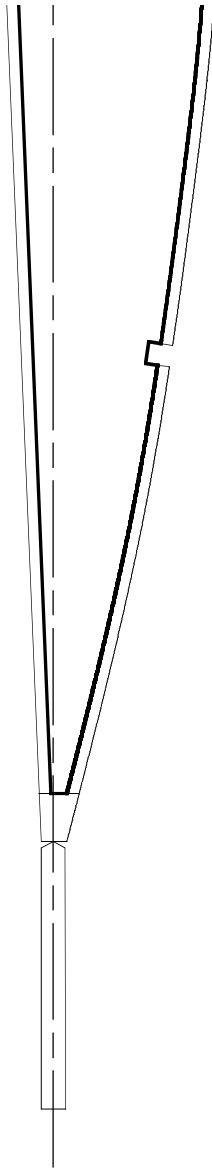


HATCH CROSS-SECTION

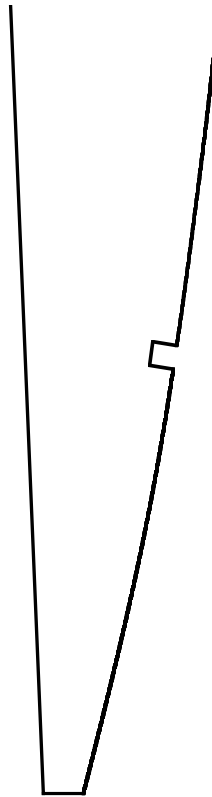




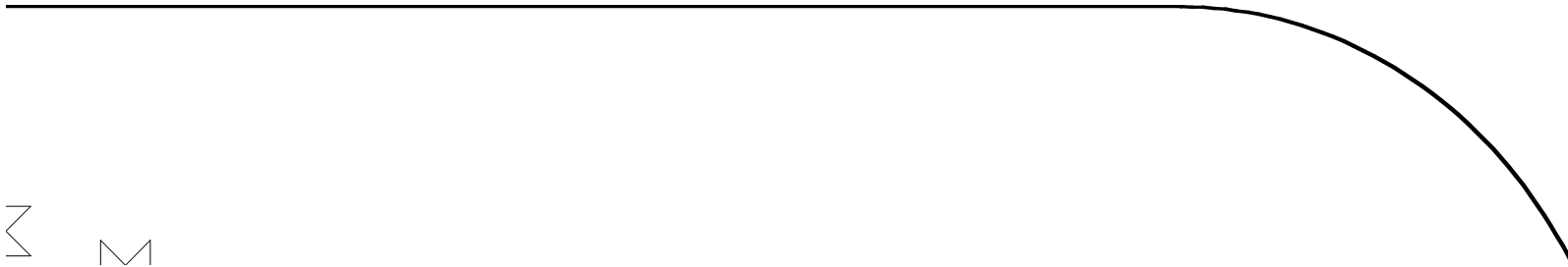
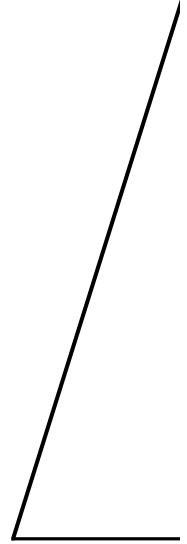
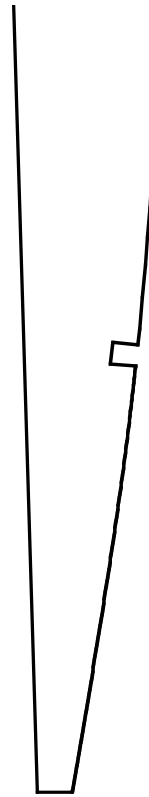
R1A

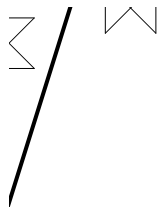


RIBS 1-6, 2X
1/16 MEDIUM
C-GRAIN BALSA



R7, 2X
1/16 MEDIUM
C-GRAIN BALSA

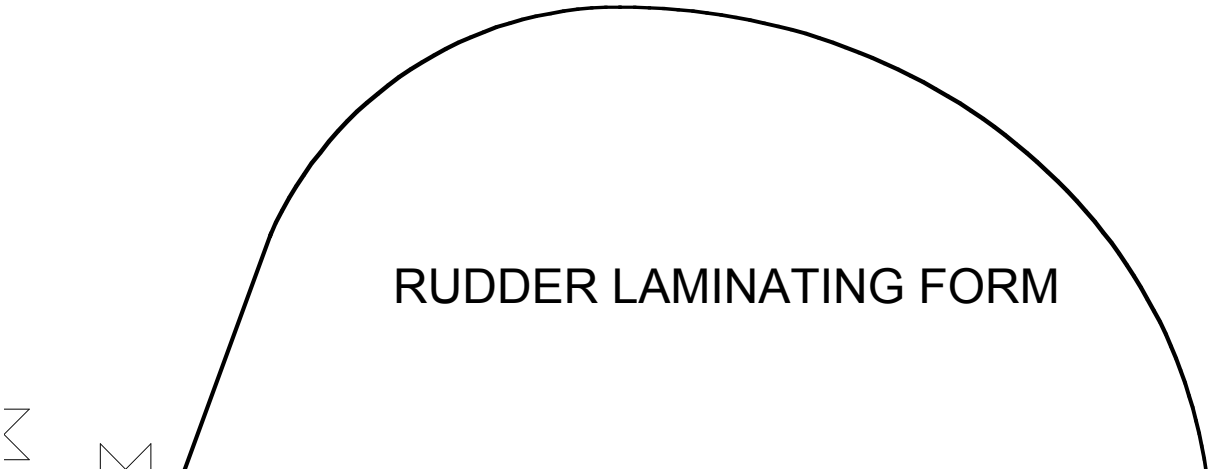




LAMINATIONS OF 1/16 X 1/2 SOFT
BALSA. SOAK IN WATER, APPLY
YELLOW PVA WOOD GLUE, WRAP
AROUND OUTLINE, PIN DOWN UNTIL
DRY, TWO REQUIRED

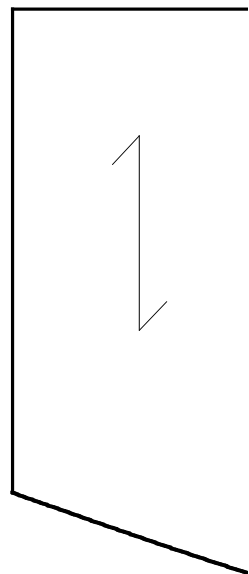
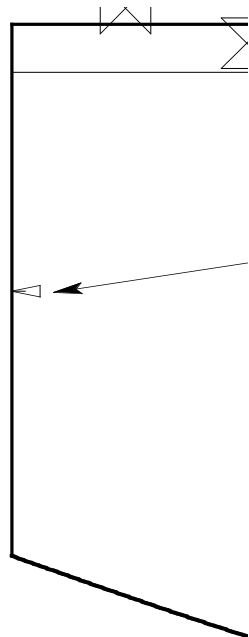
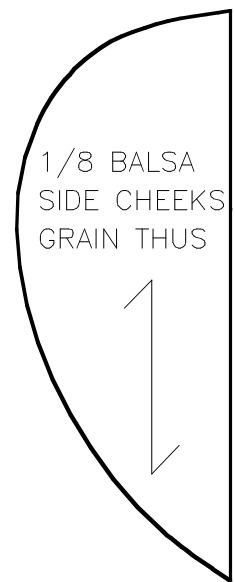


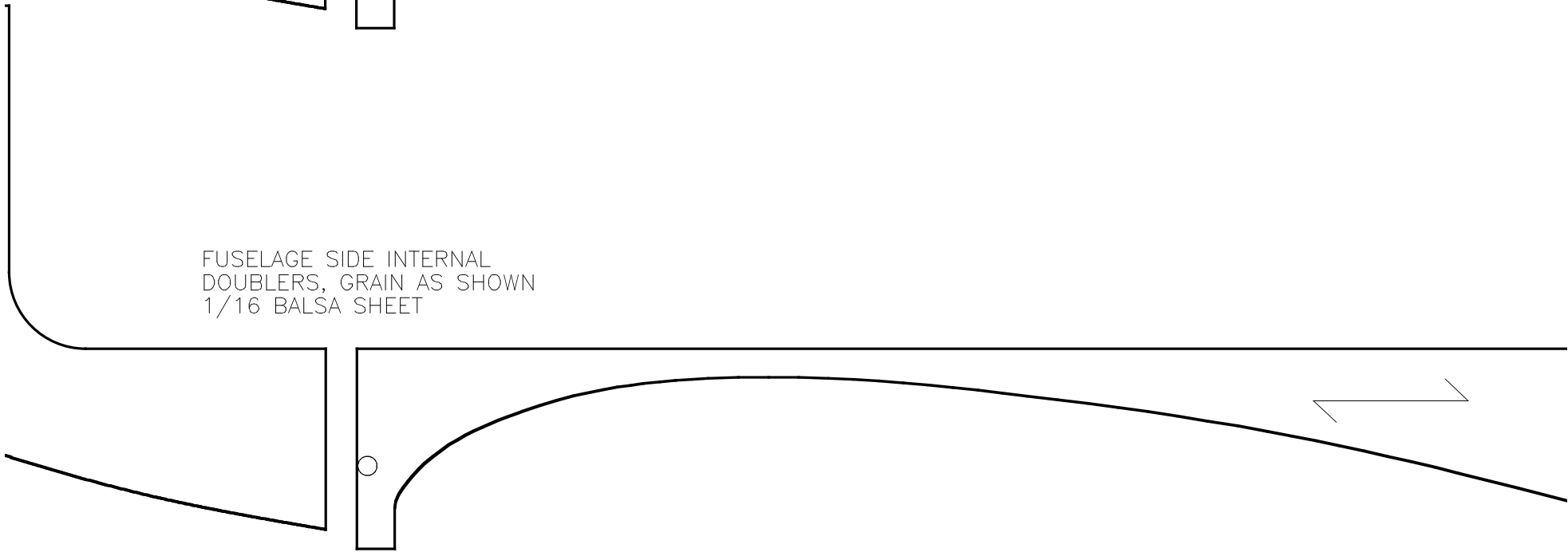
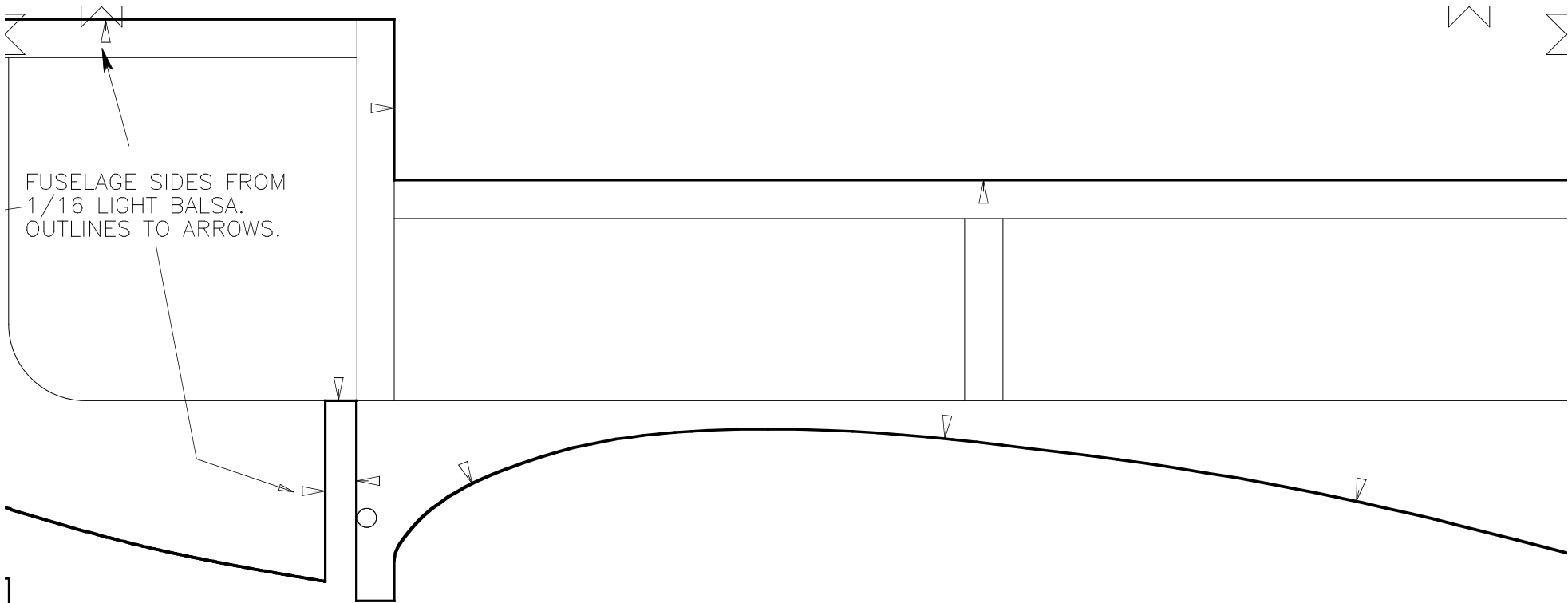
END POINTS OF OUTLINE
SHAPE — LAMINATE PAST
THESE, TRIM OFF AFTER
BUILDING COMPONENT

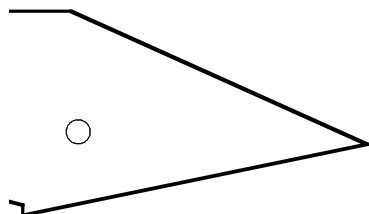
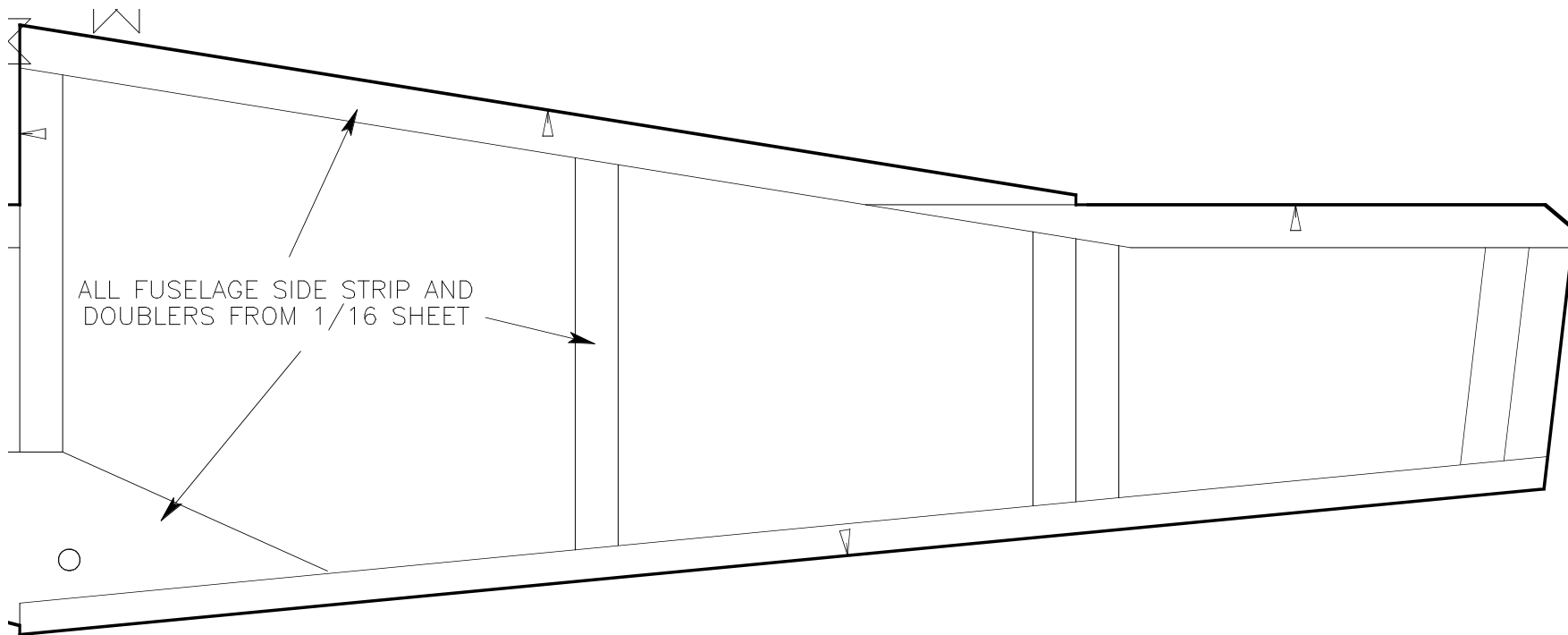


RUDDER LAMINATING FORM



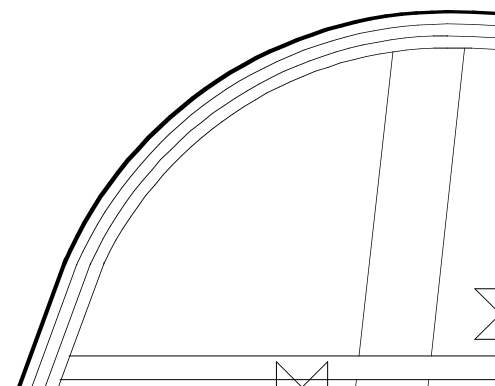
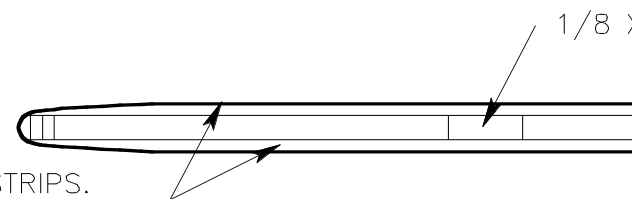


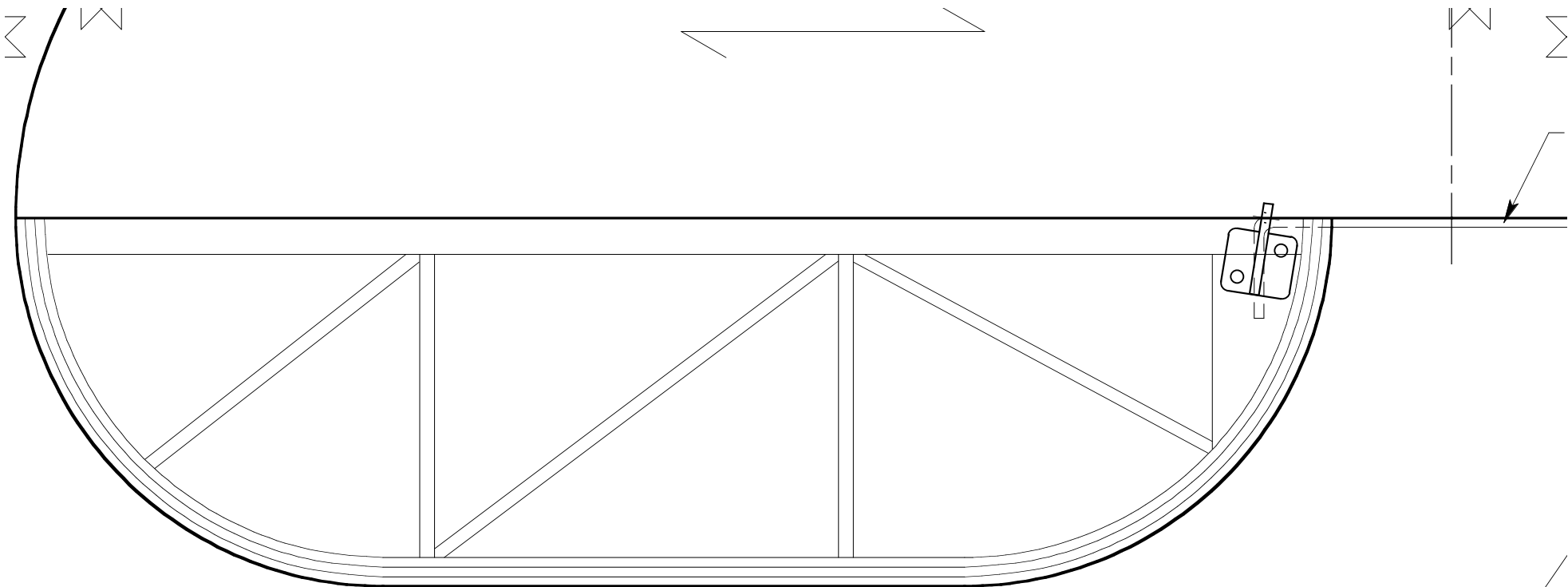




HEADREST FROM 1/4 BALSA SHEET.
FEEL FREE TO ARTISTICALLY ALTER
SHAPE TO YOUR TASTE!

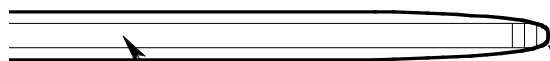
1/16 X 1/8 BALSA RIB CAPSTRIPS.
SAND ENDS TO SECTION AS SHOWN



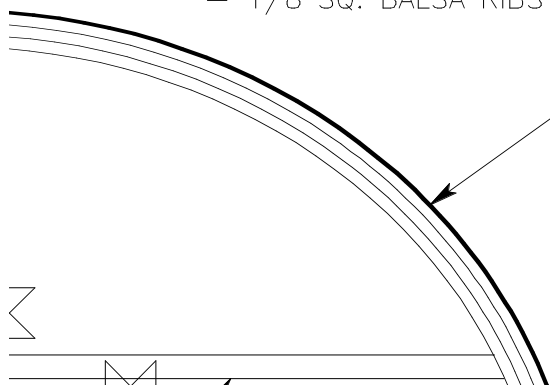


LAMINATE ELEVATOR OUTLINES
 FROM 3X 1/16 X 1/8 SOFT BALSA

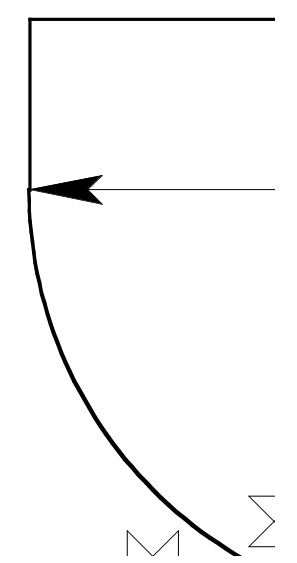
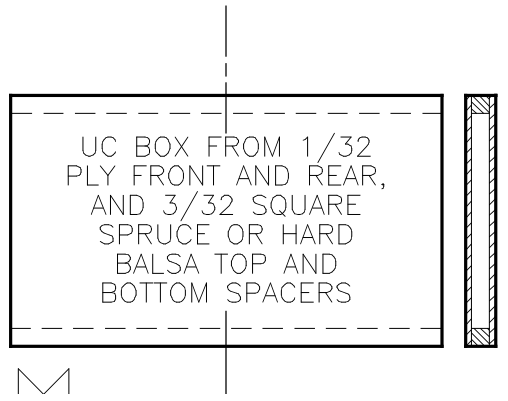
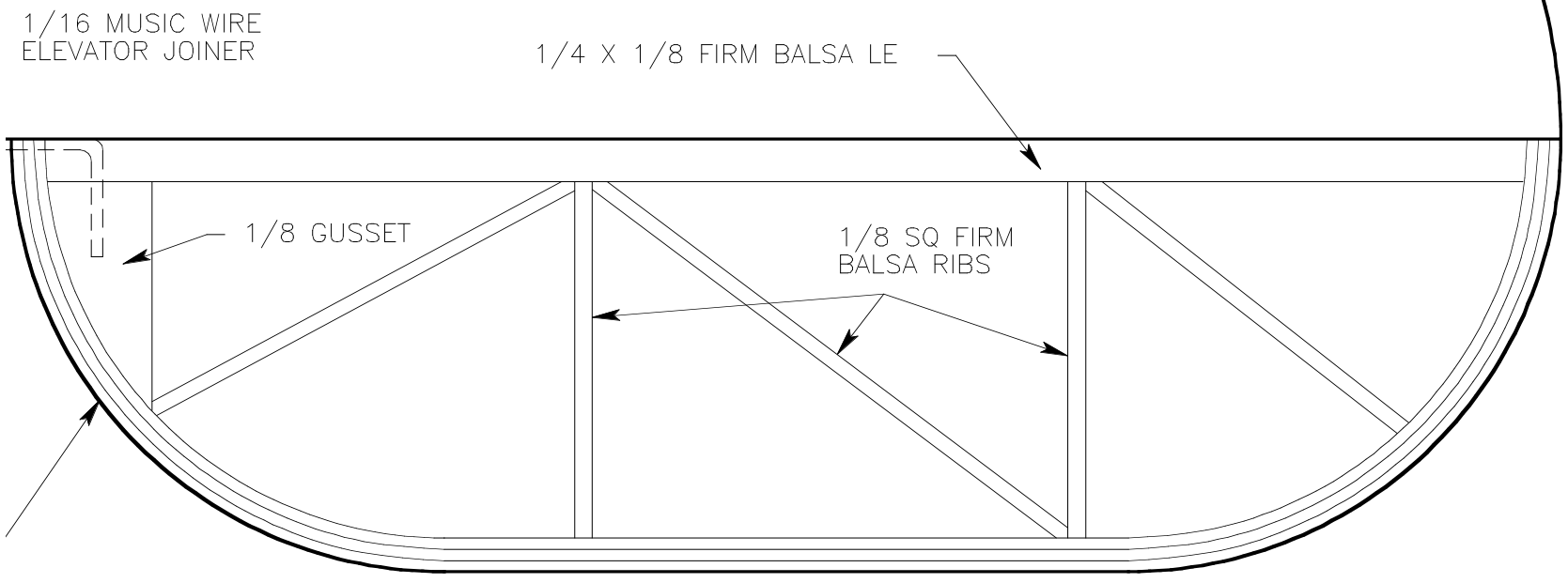
x 1/4 RUDDER MAIN SPAR



1/8 SQ. BALSA RIBS



LAMINATE AROUND FORM
 FROM 1/16 X 1/8 BALSA

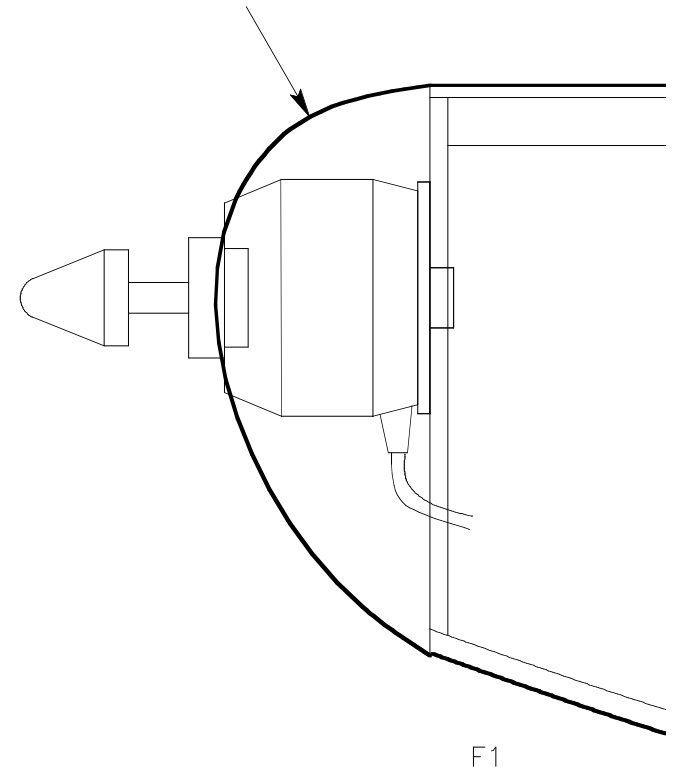


MAKE ELEVATOR AND RUDDER LAMINATING OUTLINES FROM 1/8" CARDBOARD OR WOOD. OUTLINE IS THREE LAMINATIONS OF 1/16" X 3/16" SOFT BALSA. SOAK IN WATER, APPLY YELLOW PVA WOOD GLUE, WRAP AROUND OUTLINE, PIN DOWN UNTIL DRY - OVERNIGHT IS GOOD! ONE RUDDER AND TWO ELEVATOR OUTLINES REQUIRED. TRIM TO ARROWHEADS AFTER DRY.

END POINTS OF OUTLINE SHAPE - LAMINATE PAST THESE, TRIM OFF AFTER BUILDING COMPONENT.

ELEVATOR LAMINATING FORM

COWL CHEEKS FROM 1/8 SHEET ALTER
TO SUIT MOTOR USED AS NEEDED.



1 2 3 4 5 6
SCALE - INCHES ACTUAL SIZE

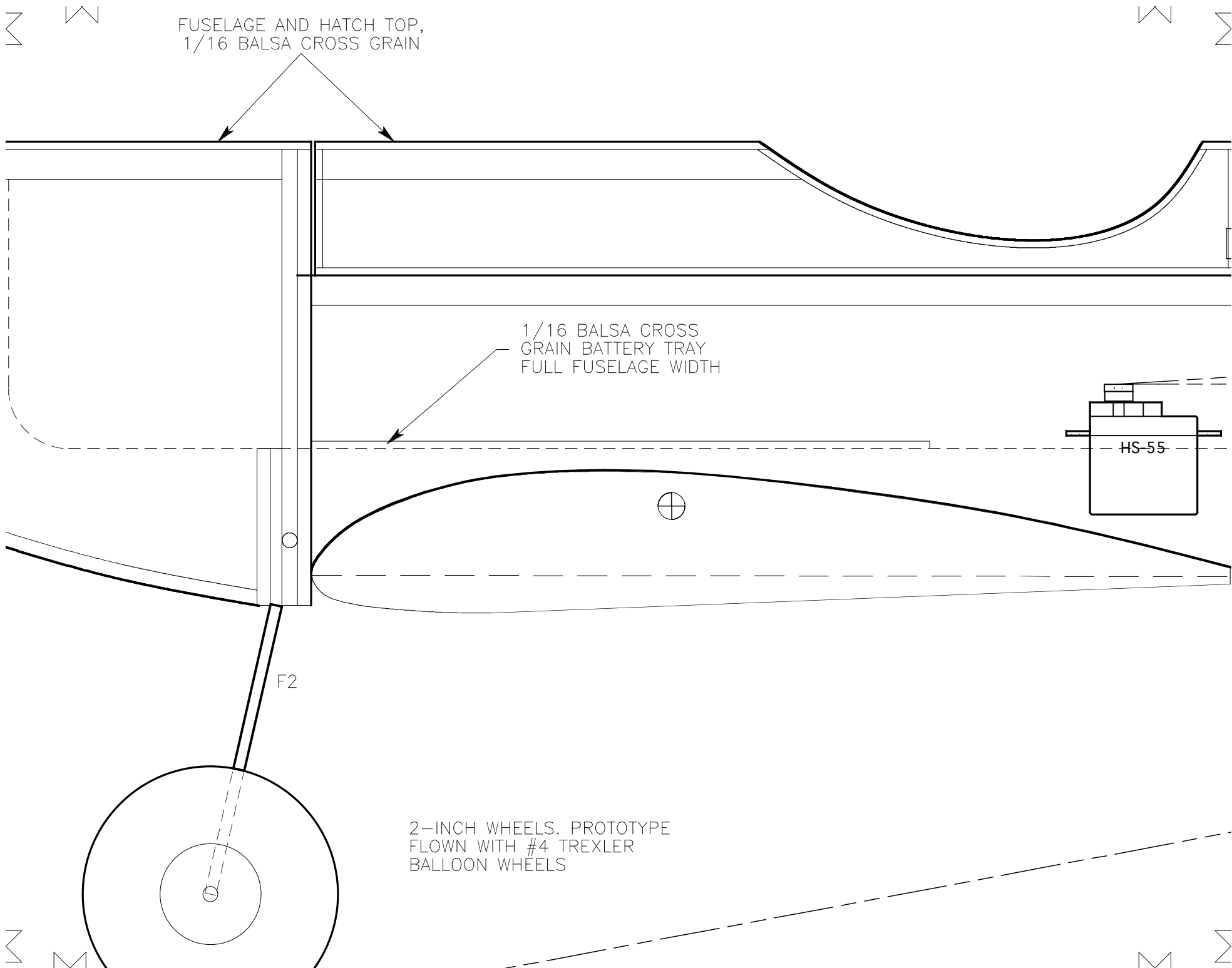
FUSELAGE AND HATCH TOP,
1/16 BALSA CROSS GRAIN

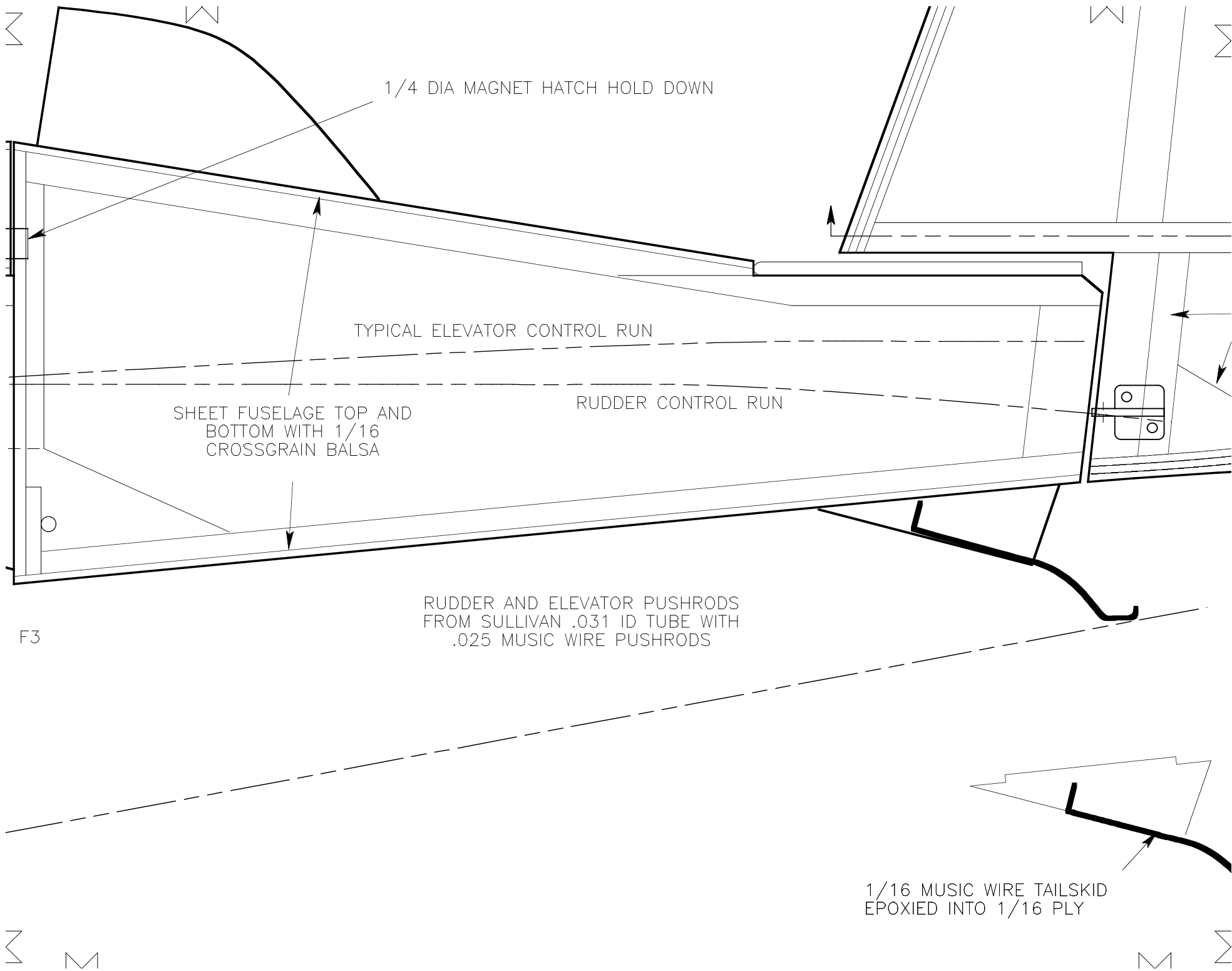
1/16 BALSA CROSS
GRAIN BATTERY TRAY
FULL FUSELAGE WIDTH

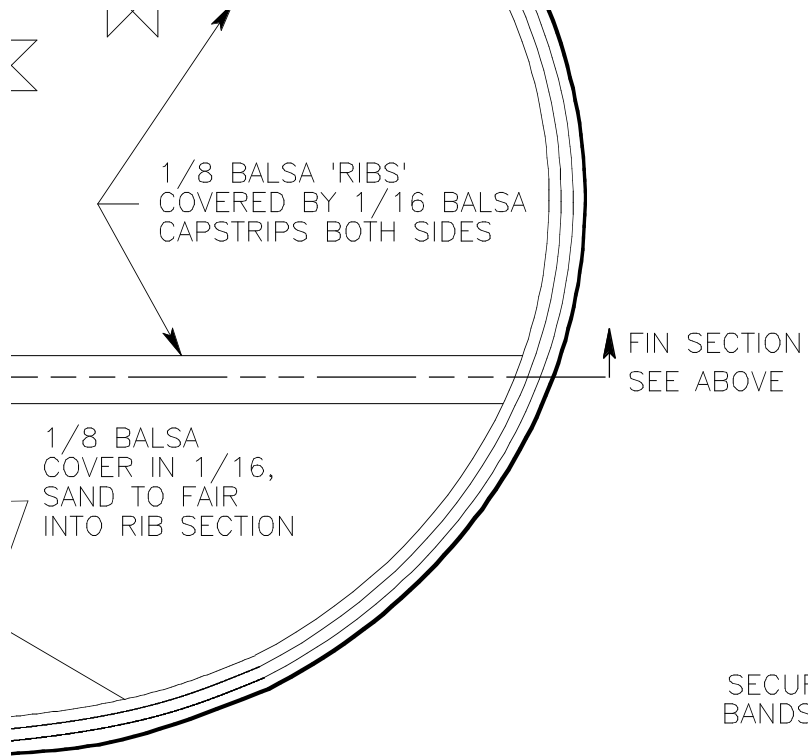
HS-55

F2

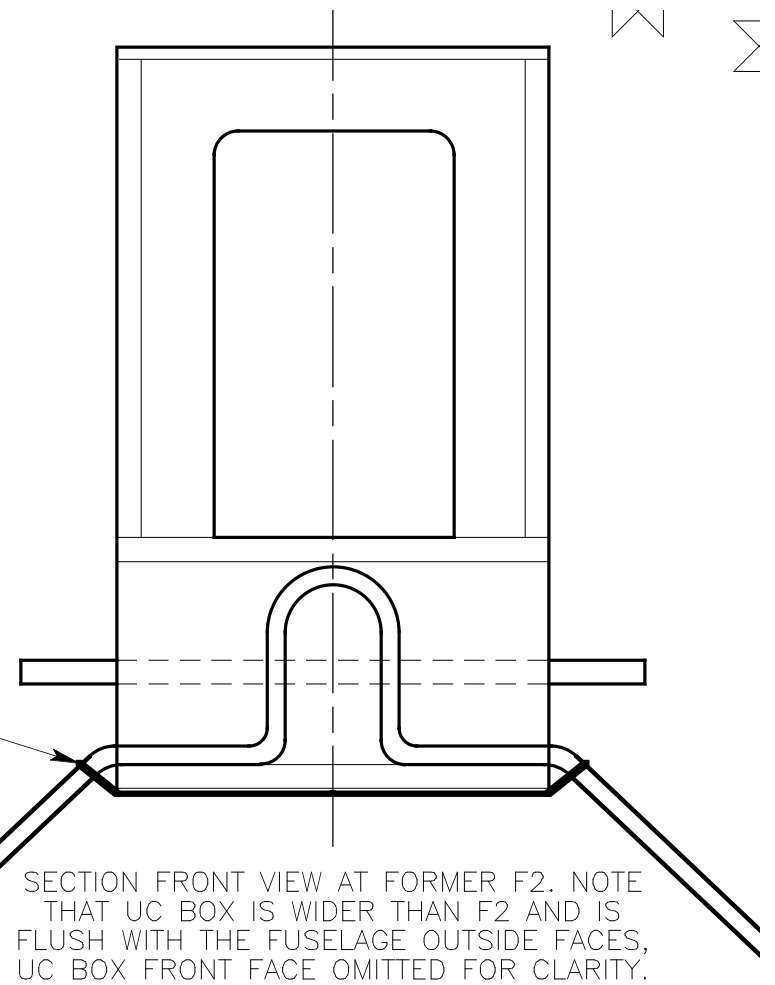
2-INCH WHEELS. PROTOTYPE
FLOWN WITH #4 TREXLER
BALLOON WHEELS



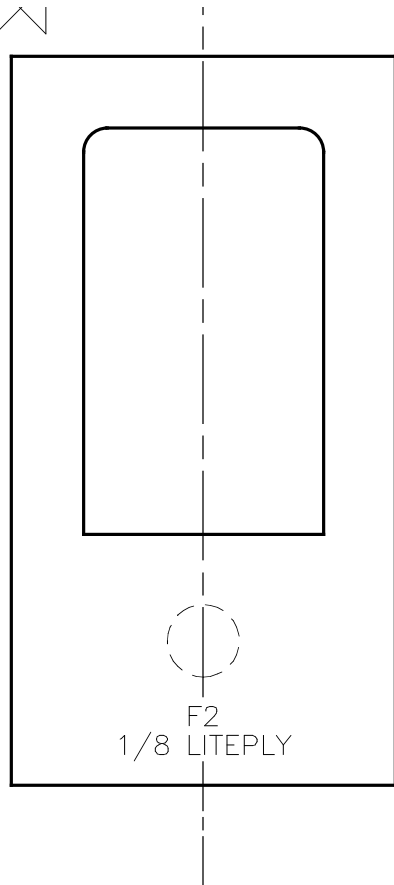




SECURE UC WITH RUBBER
BANDS AROUND LEGS AND
UNDER FUSELAGE



BEND UC FROM 3/32 MUSIC
WIRE. AXLE LENGTH TO SUIT
WHEELS USED. 2-INCH TREXLER
AIRWHEELS ON PROTOTYPE

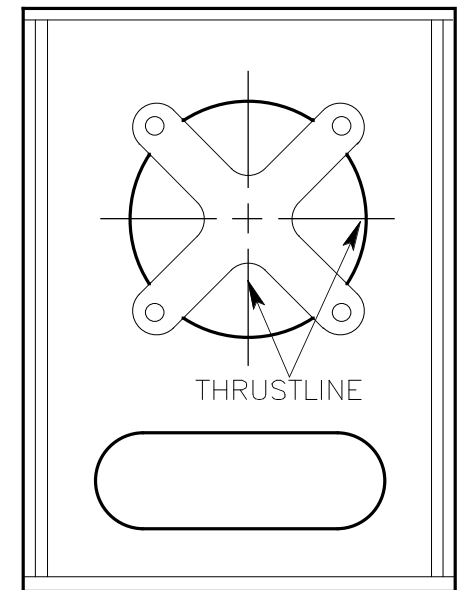
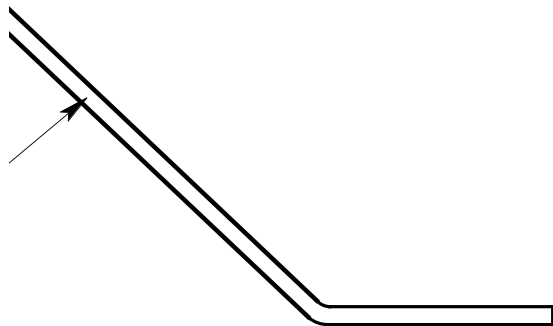


UC
BOX

F2 SIDE VIEW

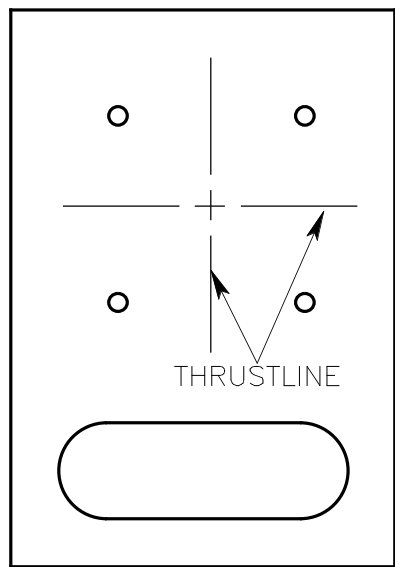
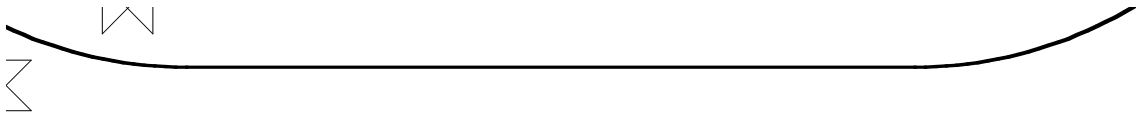
1/8 BALSA ABOVE AND BELOW DOWEL

1/8 WING MOUNT DOWEL

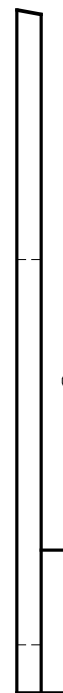
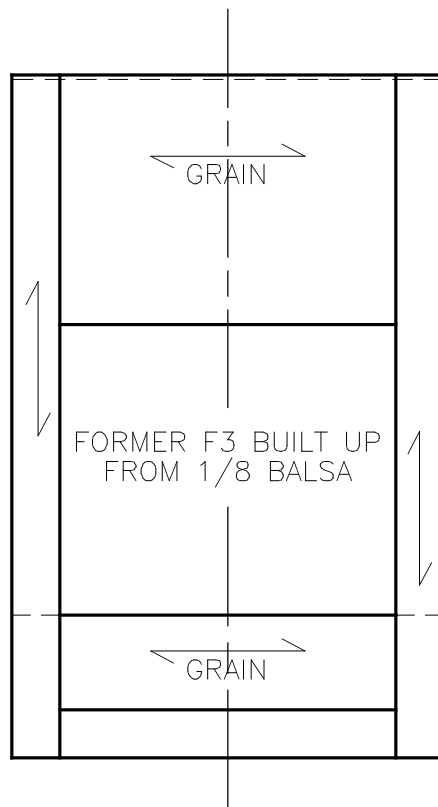


FIREWALL SECTION, FIT
COOLING HOLES TO
SUIT MOTOR USED





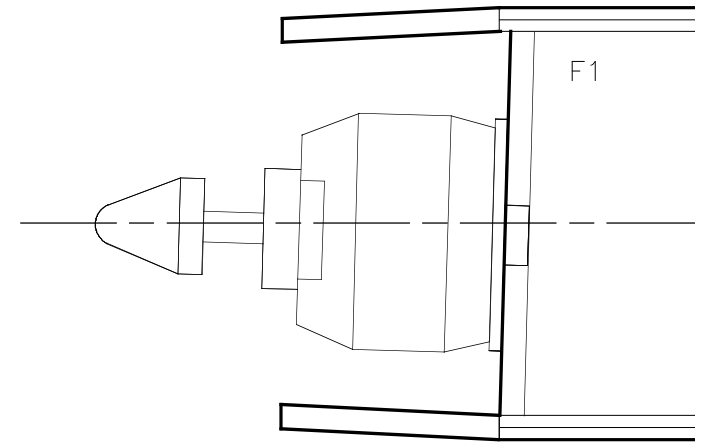
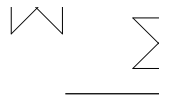
FIREWALL 1/8 BIRCH PLY
ADJUST MOTOR MOUNT
COOLING HOLES TO SUIT
MOTOR USED

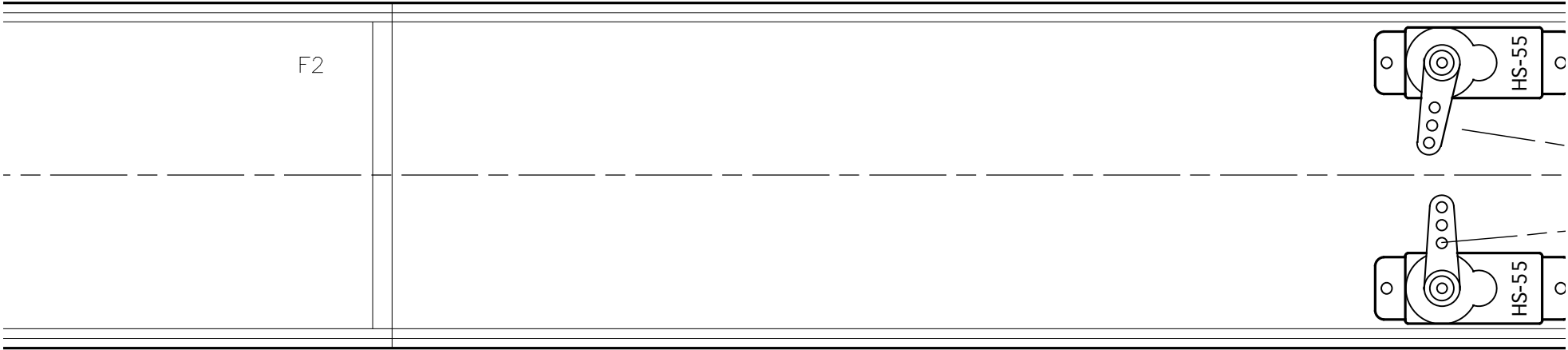
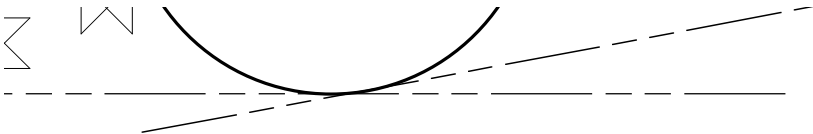


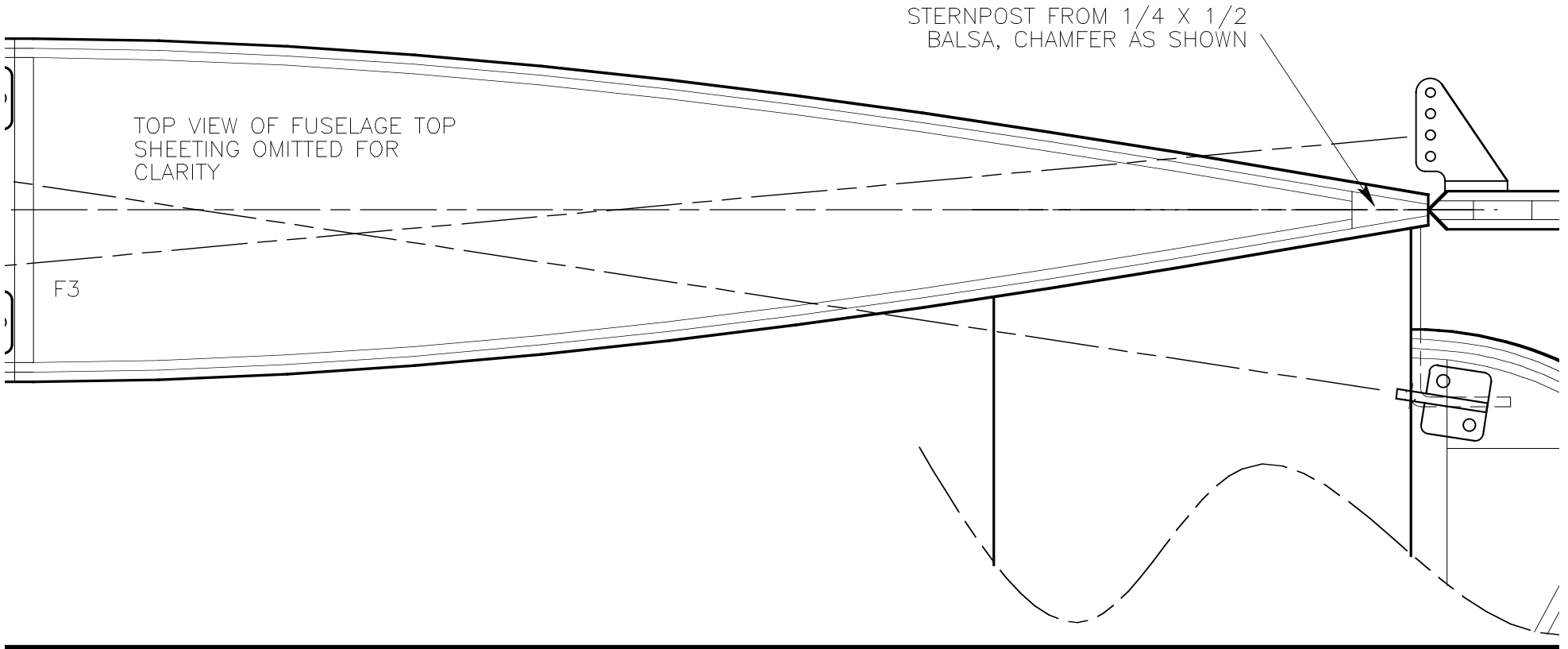
REAR
FACE
OF F3

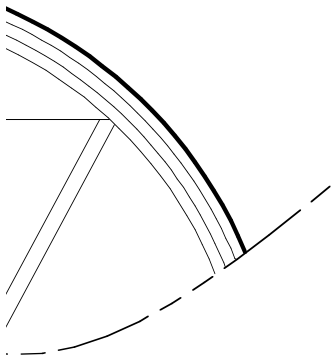
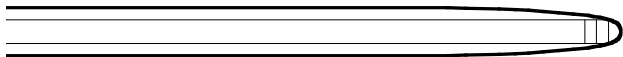


NOTE FIREWALL OFFSET
TO GIVE RIGHT THRUST
TO MOTOR









WINGSPAN: 36 IN
LENGTH: 25.75 IN
WING AREA: 302 SQ IN
WEIGHT: 17.3 OZ
WING LOADING: 8.25 OZ/SQ FT
WING CUBE LOADING: 5.70
POWER: ATLAS 2312/09 BRUSHLESS
3S 1200MAH LIPO

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V_{ERY} **S**_{HORT} **P**_{LANE}

A SIMPLE ELECTRIC FLYER FOR YOUR LOCAL PARK

DESIGNED BY DERECK WOODWARD

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DECEMBER 2010

DRAWN WITH ASHLAR-VELLUM GRAPHITE CAD SOFTWARE, TS