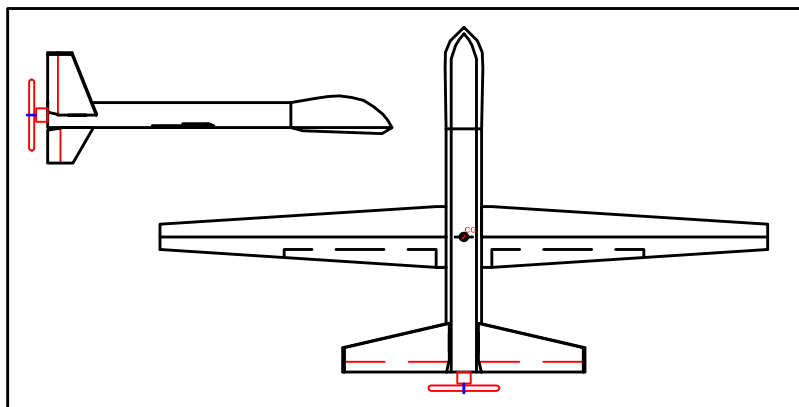




FOAM, GLUE, TAPE AND A LITTLE IMAGINATION....



(Version 1.1 Shown In Picture)

(RC Model Airplane Construction Plans)

rcFoamFighters

FF-Predator (Rev. 1.1)

(Initial Design by Tim McMahan - Dec. 2009 Rev 1.0)

(Revised Design by Tim McMahan and RCFF Team - Jan. 2010)

(CAD Drawing by Paul Petty - Jan. 2010)

FREE PLAN - NOT TO BE SOLD

rcFoamFighters

FF-Predator

Basic Template (Rev 1.1 BETA)

(Initial Design by Tim McMahan - Dec. 2009 Rev 1.0)

(Revised Design by Tim McMahan and RCFF Team - Jan. 2010)

(CAD Drawing by Paul Petty - Jan. 2010)

(Contact rcFoamFighters at: admin@rcfoamfighters.com)

(Please Visit Our Blog at: <http://rcfoamfighters.com/blog/>)

Basic Specs as built by Tim of rcFoamFighters:

Wingspan: 60 Inches (152.4cm)

Length: 34 Inches (86.36cm)

All Up Weight (AUW): 25oz. (708gms)

Top Speed: 45mph (72.4kph)

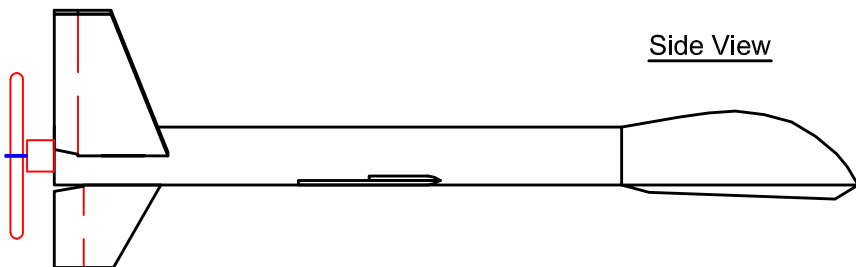
Note, weight and top speed may vary depending on materials, motor, battery and electronics used. The weight given here is based on the Prototype model Tim of rcFoamFighters made using various materials including Elmers Brand Foamboard. Using Depron or Fan Fold Foam will surely reduce the AUW.

Copy Disclaimer

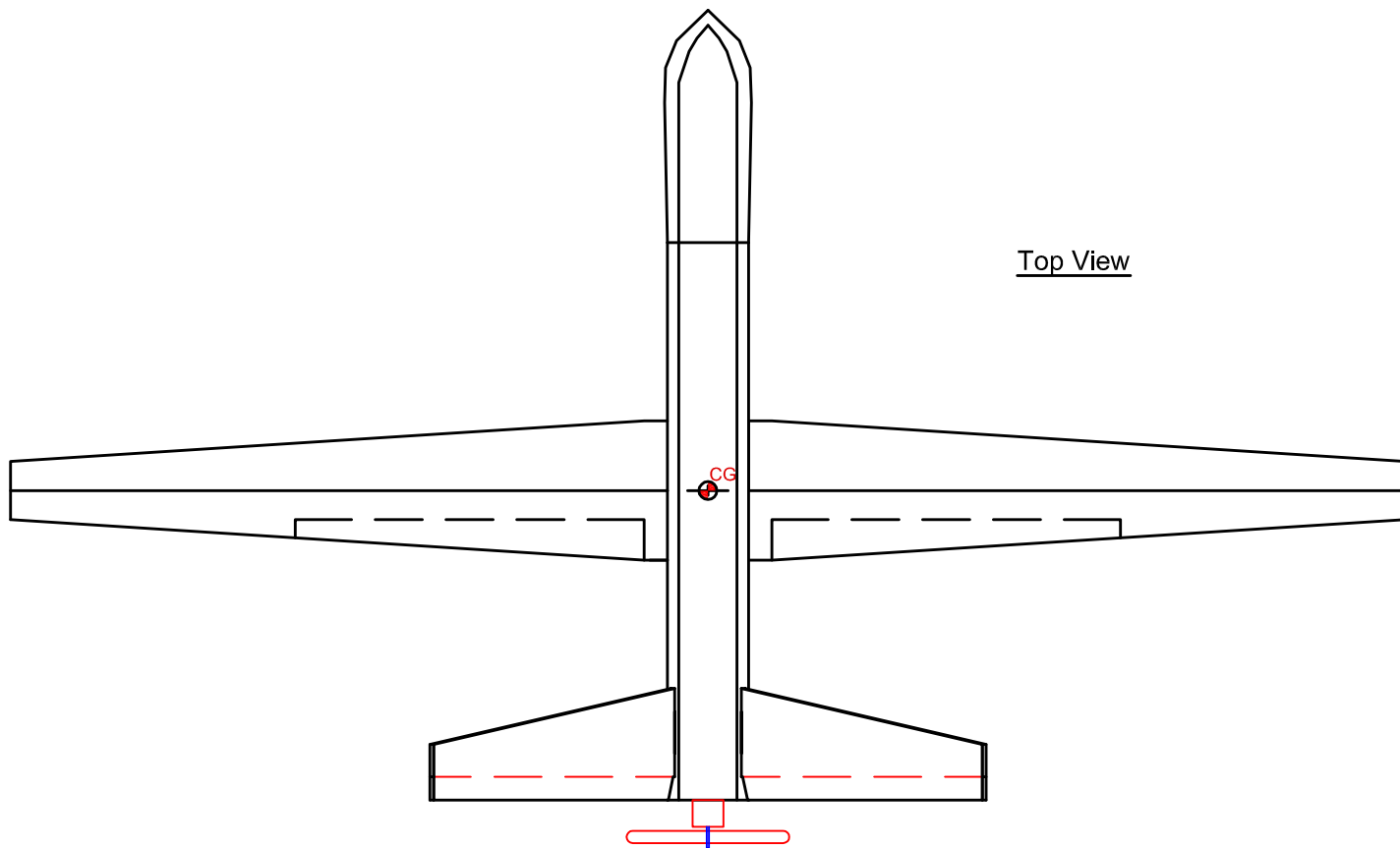
rcFoamFighters grants permission for this plan to be copied at local copy houses for personal use only. This plan may not be Sold, or Altered to remove the rcFoamFighters contact information or instructions.

(Contact rcFoamFighters at: admin@rcfoamfighters.com)

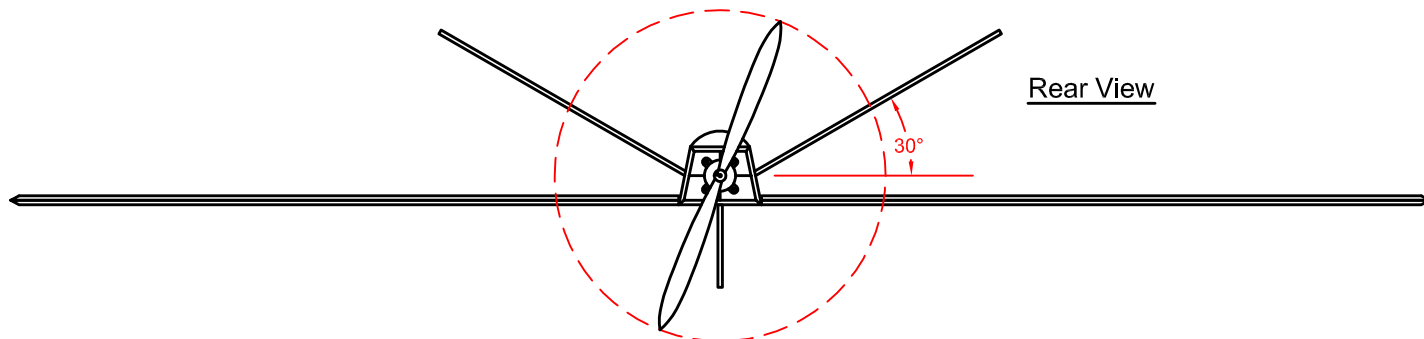
Side View



Top View



Rear View



Recommend Parts:

BASIC SETUP (60+mph)

Motor: Suppo A2212/10 1400kV Brushless Motor (From www.rcHotDeals.com)

ESC: Suppo 30A Brushless ESC (From www.rcHotDeals.com)

Prop: GWS 8x6

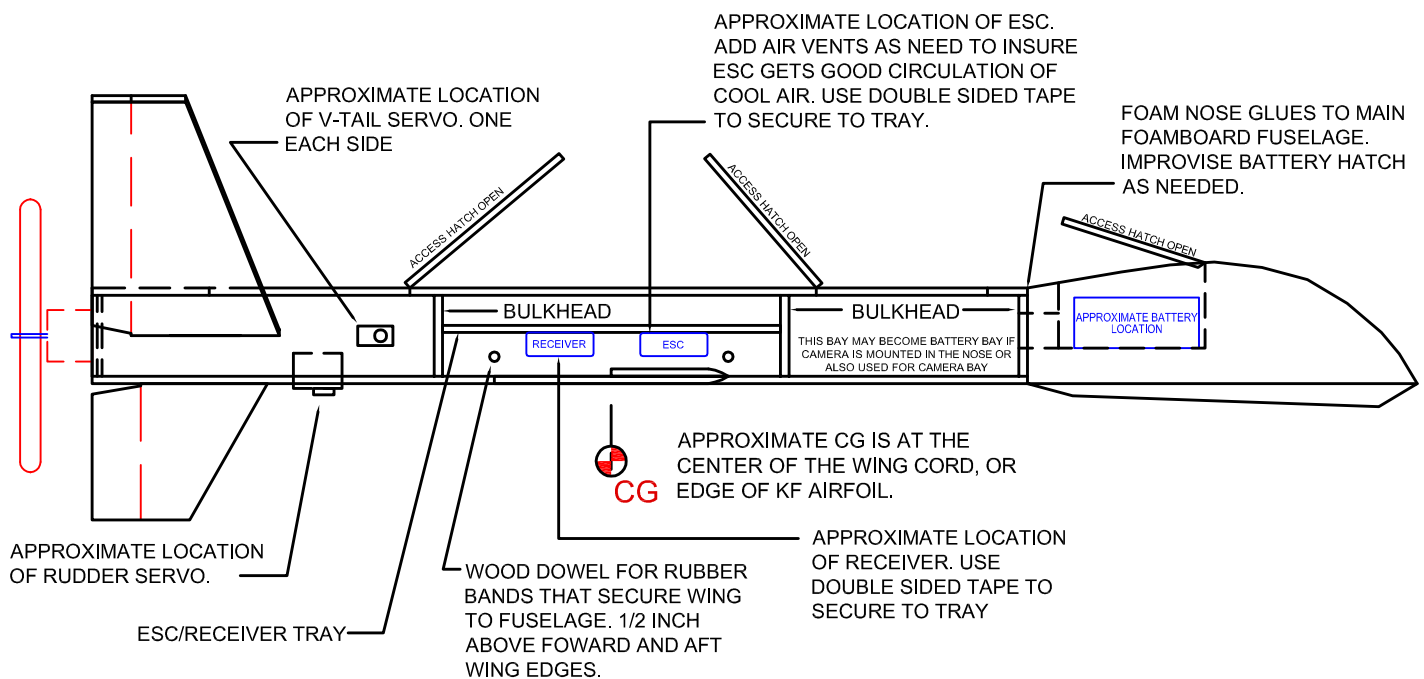
Battery: 1350mA (25C or better recommended)

Servos: 5 Each 9 Gram Servos.

Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

Disclaimer (Please Read):

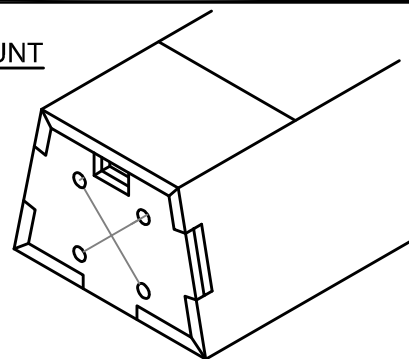
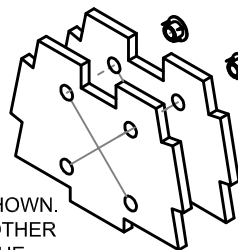
- This is a design template intermediate to advanced RC aircraft pilots. This plane should only be built and flown by pilots with adequate skill to fly highly maneuverable planes.
- DO NOT fly this plane where it can endanger people, livestock or property.
- ANY PERSONS DECIDING TO BUILD AND FLY THIS PLANE DOES SO AT HIS/HER OWN RISK. RCFOAMFIGHTERS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF THIS PLANE.
- Take care to launch this plane safely with your hand and body as far away from the fast moving propeller. Not doing so can cause bodily harm if any hand or body part comes into contact with the fast spinning propeller!!!!
- All minors should fly under the supervision of an adult or guardian.



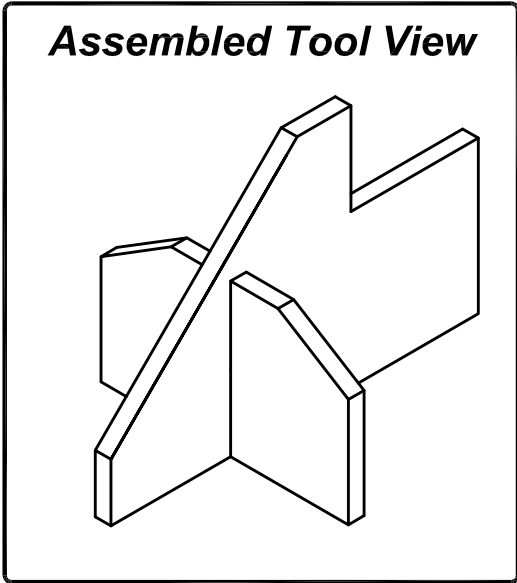
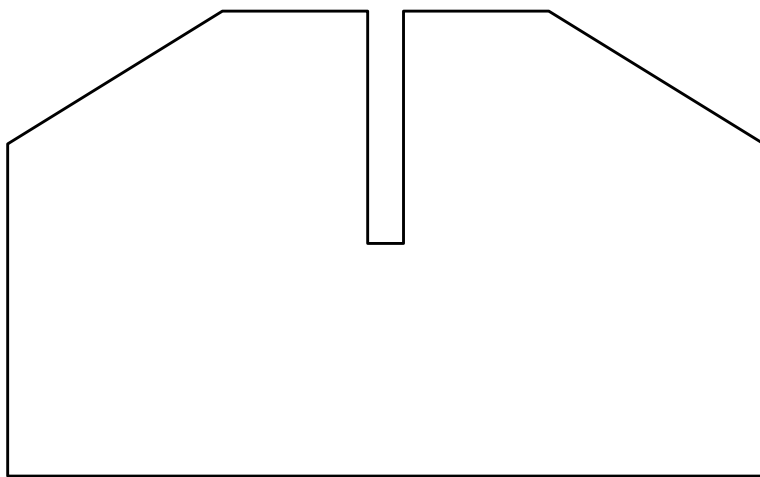
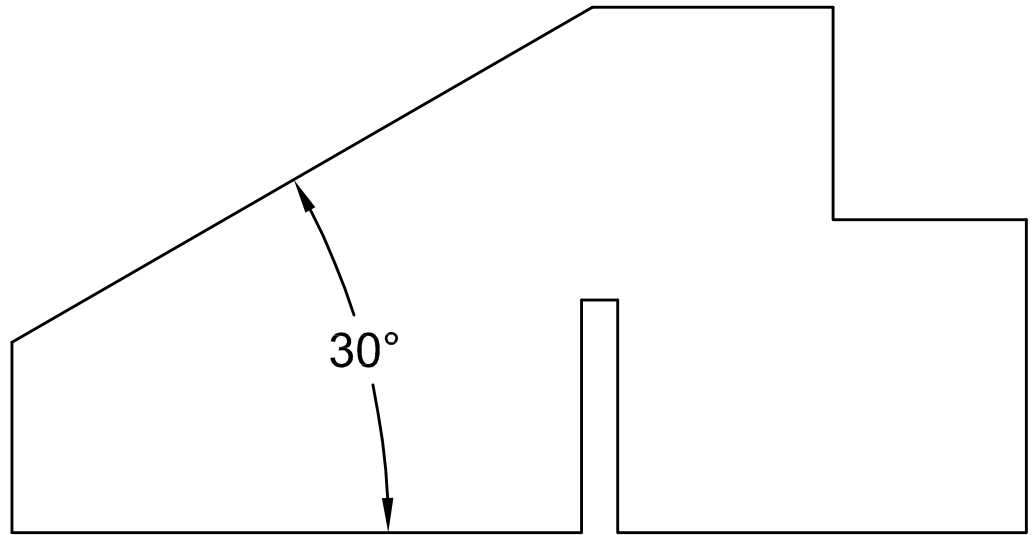
SCRATCH BUILT BASSWOOD MOTOR MOUNT
(MADE FROM 3/32" BASSWOOD SHEETS)

MOUNT

ASSEMBLE AS SHOWN.
USE EPOXY OR OTHER
ADHESIVE TO GLUE
TOGETHER.



INSERT 4 EACH, 4-40 BLIND NUTS
INTO BACK OF MOTOR MOUNT
PLATE. INSURE HOLE PATTERN IS
DRILLED TO MATCH MOTOR TO BE
USED. (USE 4 EACH 4-40 HEX BOLTS
TO SECURE MOTOR TO MOUNT.)



TAIL FIN ANGLE TEMPLATE TOOL

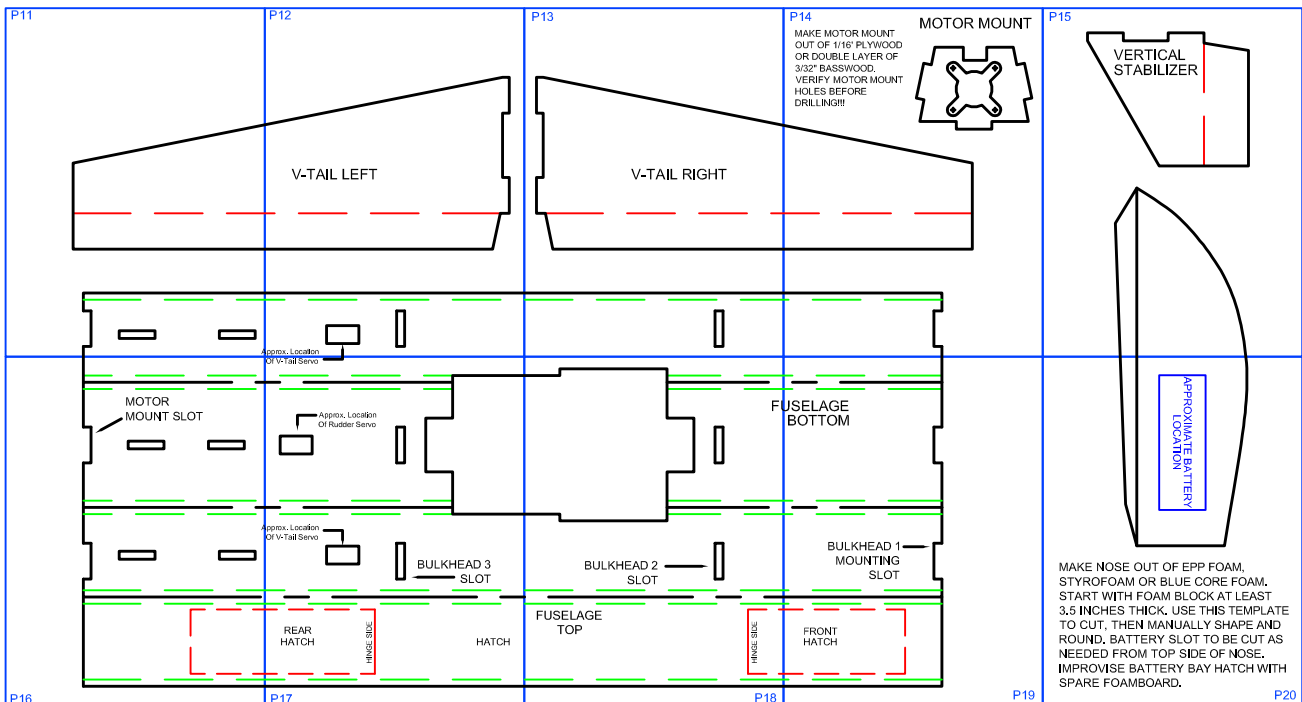
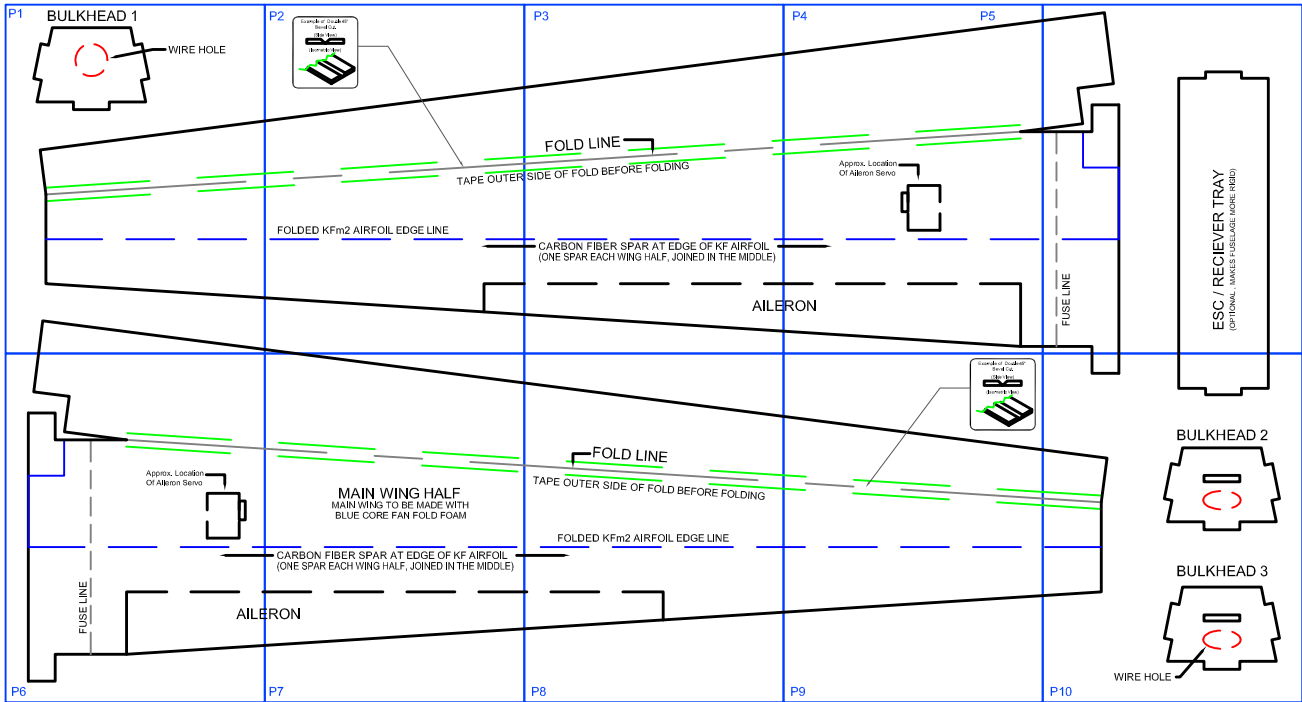
These can be used as patterns to cut out the Tail Fin Angle Template Tool out of Foam Board or other material. Use this tool after assembled to hold the Tail Fins at 45° while your adhesive dries.

TEMPLATE ASSEMBLY KEY PLAN

rcFoamFighters FF-Predator

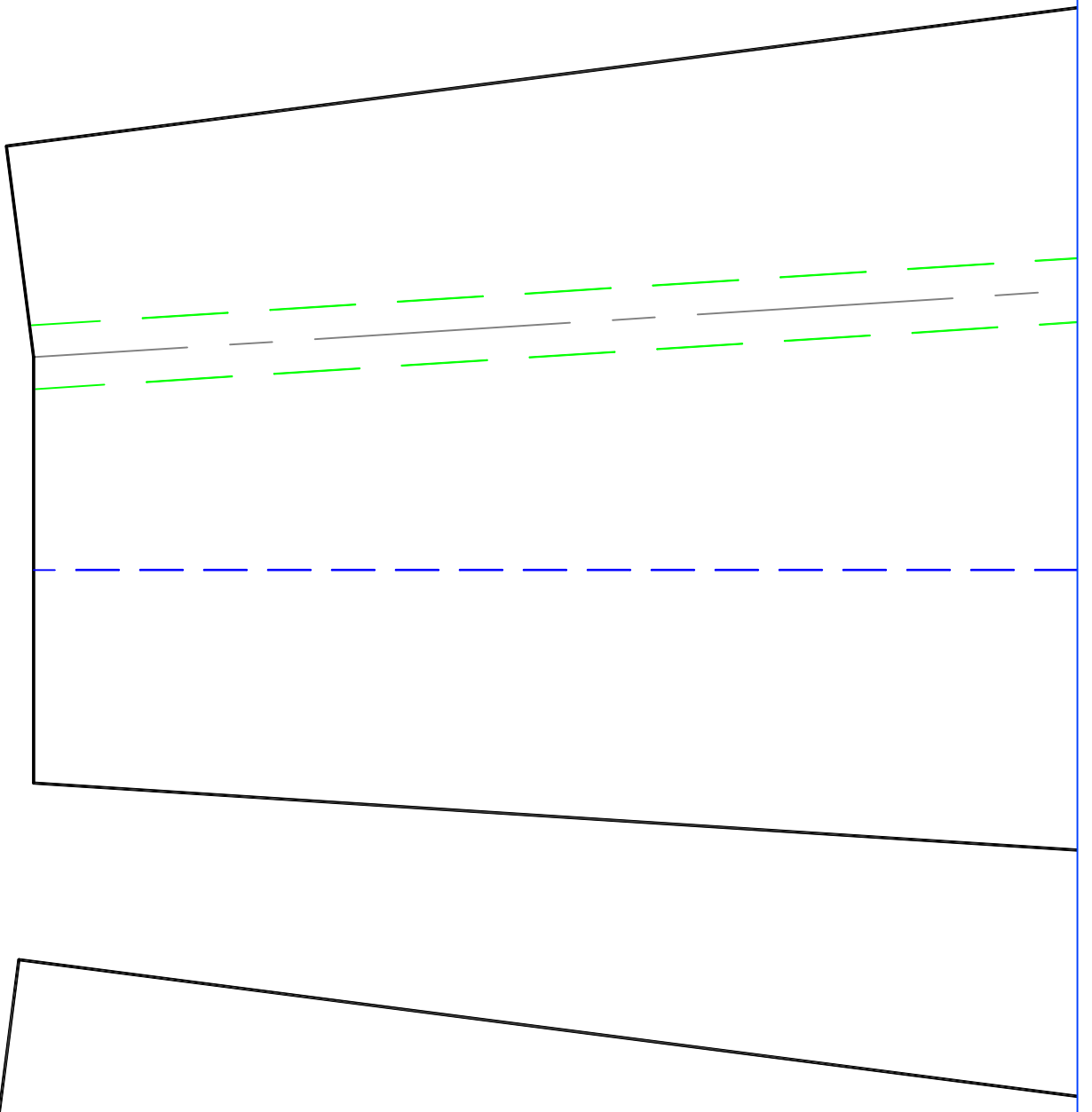
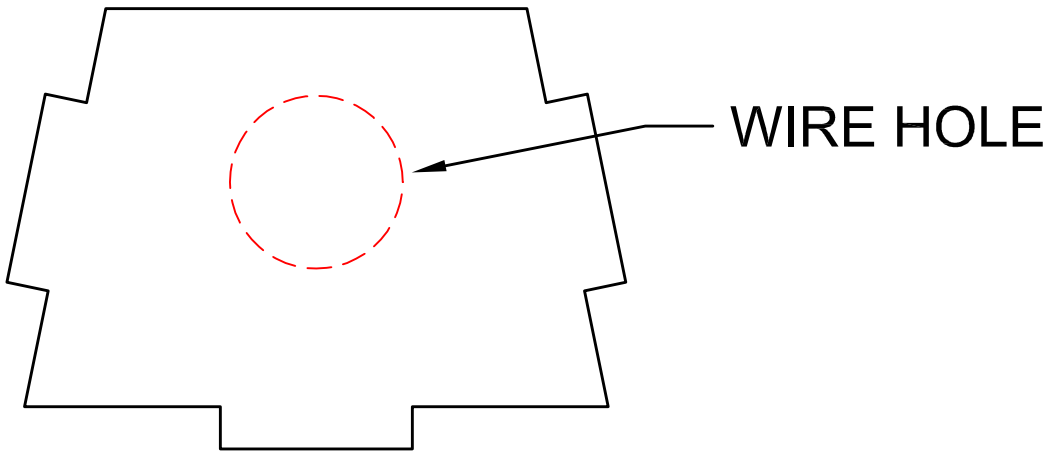
(Initial Design by Tim McMahan - Dec. 2009 Rev 1.0)
 (Revised Design by Tim McMahan and RCFF Team - Jan. 2010)
 (CAD Drawing by Paul Petty - Jan. 2010)

INSTRUCTIONS:
PRINT ALL TEMPLATE SHEETS. CUT AND ASSEMBLE AS SHOWN BELOW. USE SCOTCH TAPE TO SECURE SHEETS TOGETHER.

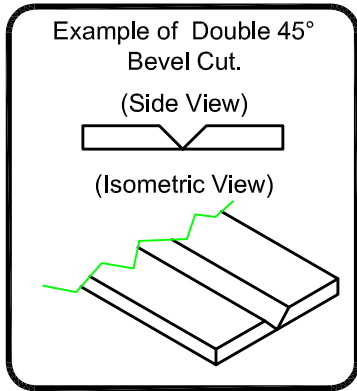


P1

BULKHEAD 1

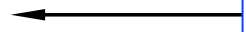


P2

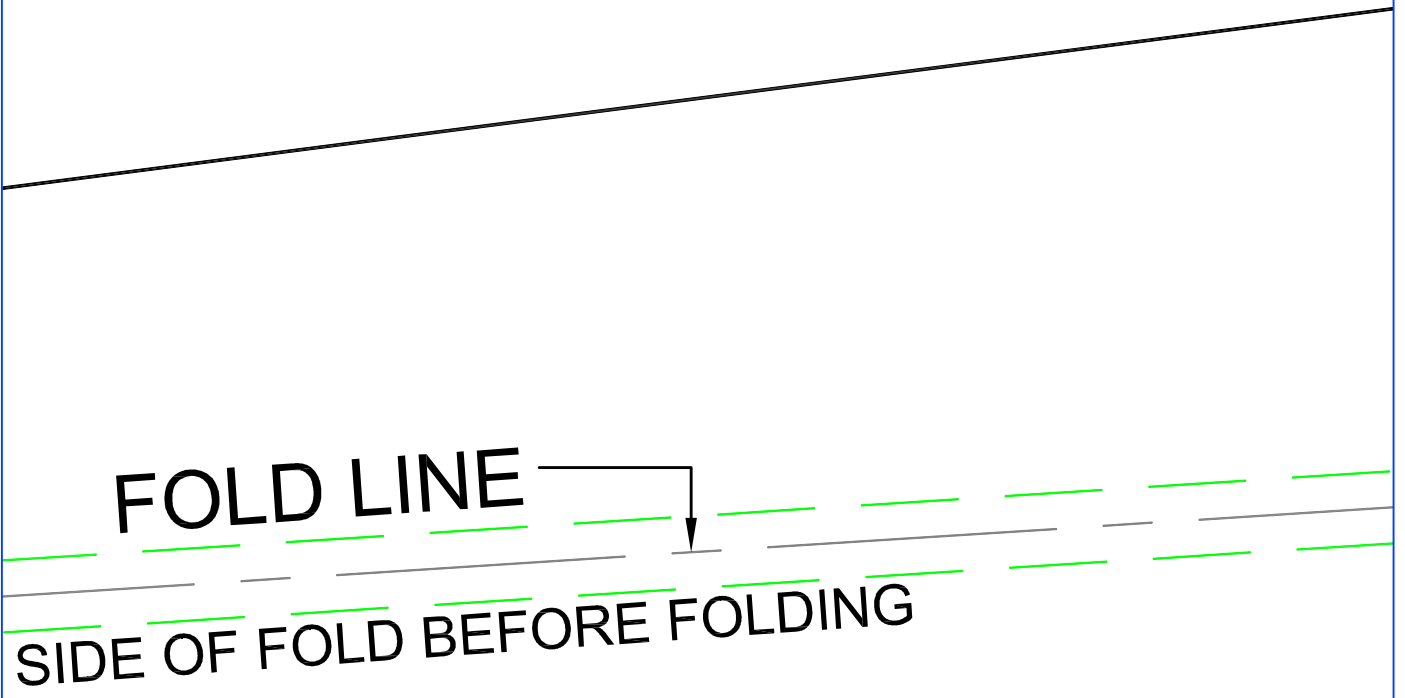


TAPE OUTER

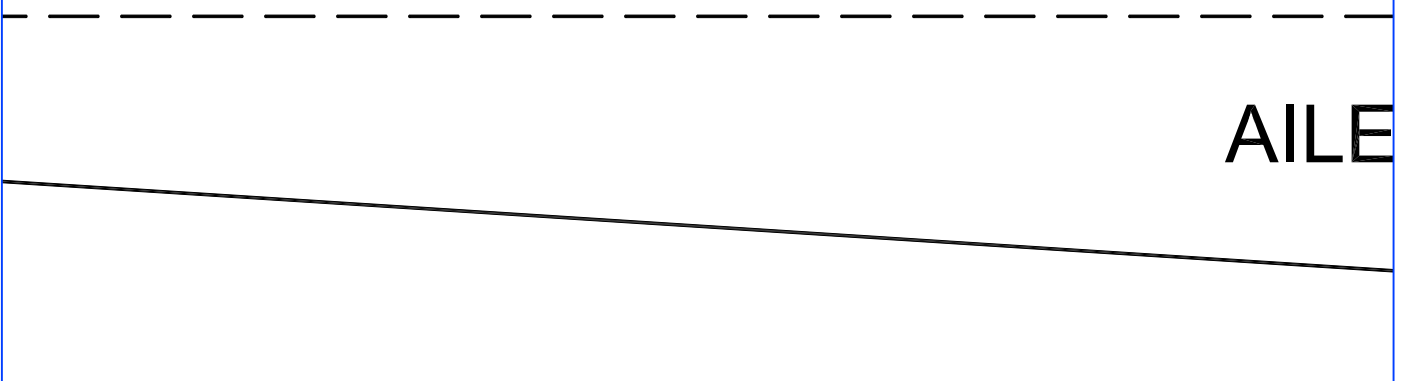
FOLDED KFm2 AIRFOIL EDGE LINE



P3



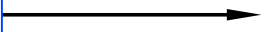
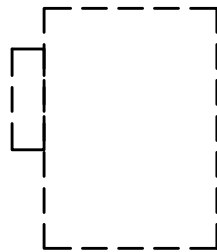
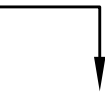
— CARBON FIBER SPAR AT EDGE OF KF AIRFOIL —
(ONE SPAR EACH WING HALF, JOINED IN THE MIDDLE)



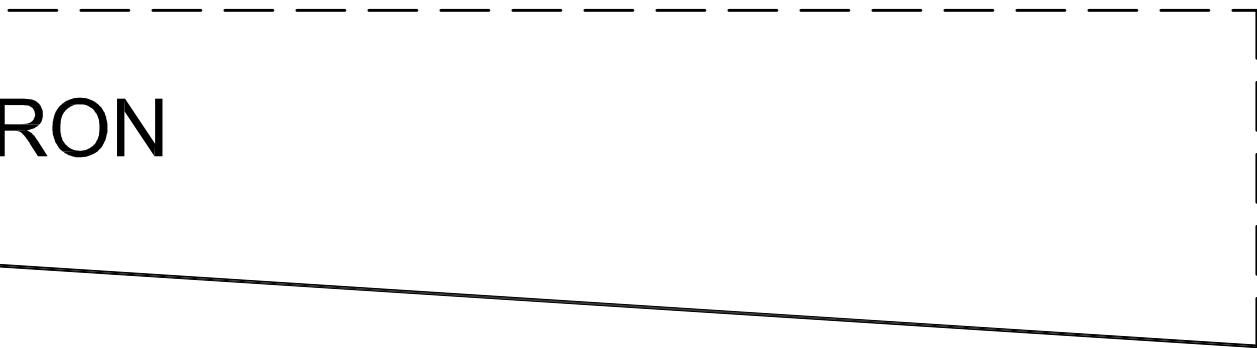
P4

P5

Approx. Location
Of Aileron Servo



RON

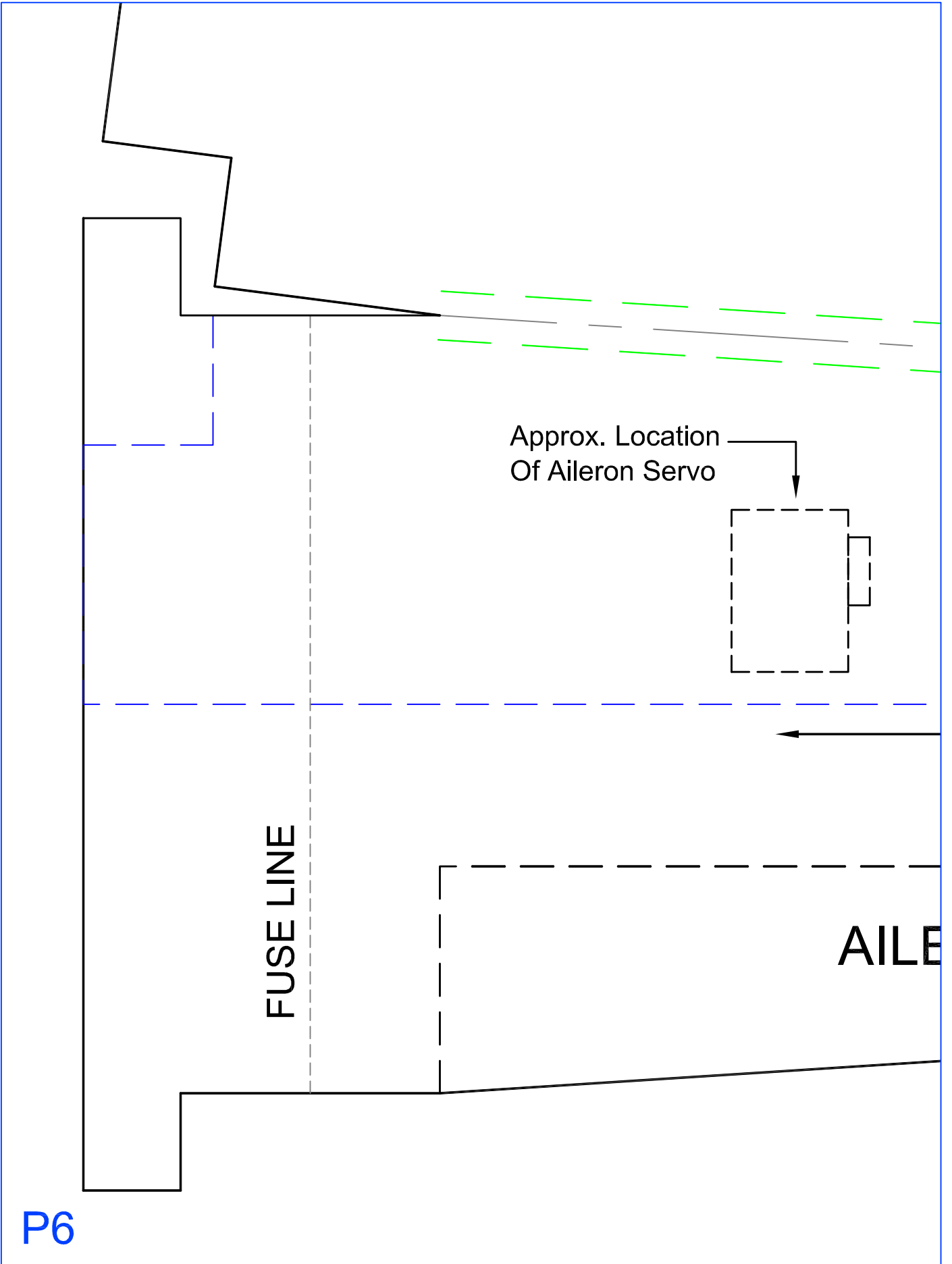




FUSE LINE



ESC / RECEIVER TRAY
(OPTIONAL , MAKES FUSELAGE MORE RIGID)



Approx. Location
Of Aileron Servo

FUSE LINE

AILE

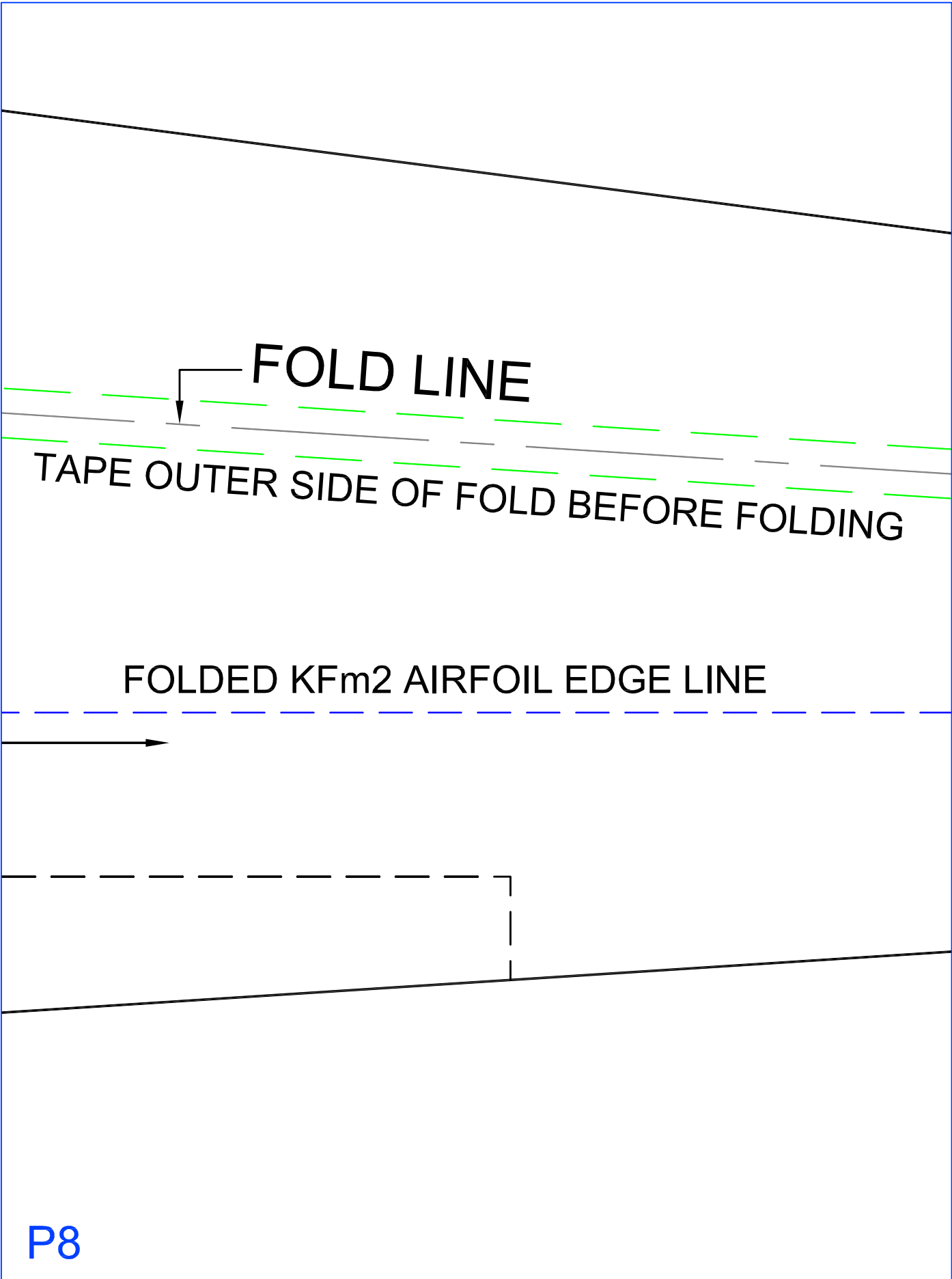
P6



MAIN WING HALF
MAIN WING TO BE MADE WITH
BLUE CORE FAN FOLD FOAM

— CARBON FIBER SPAR AT EDGE OF KF AIRFOIL —
(ONE SPAR EACH WING HALF, JOINED IN THE MIDDLE)

ERON

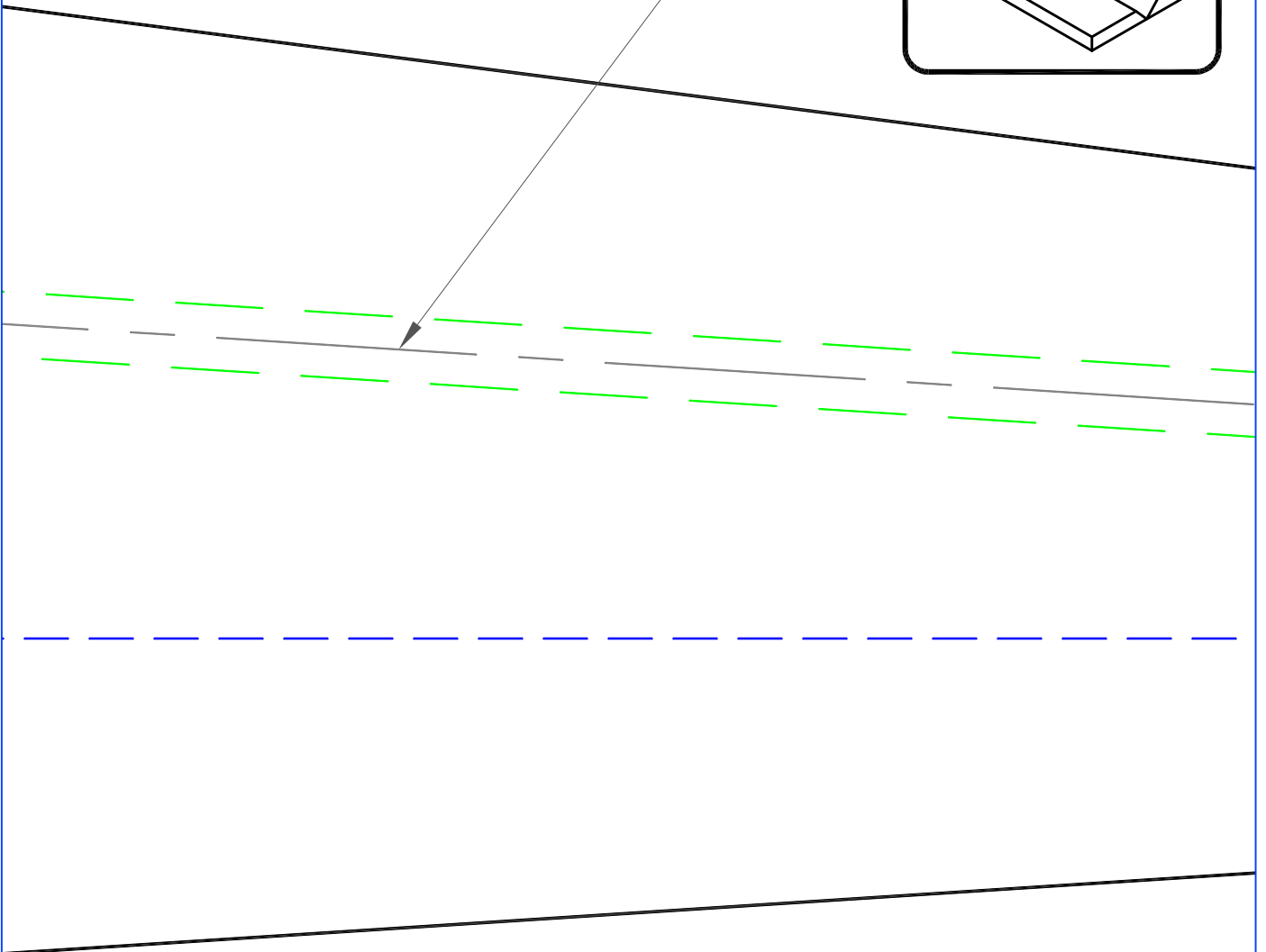
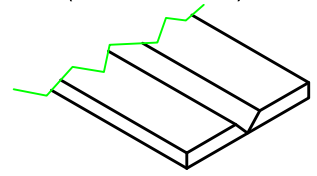


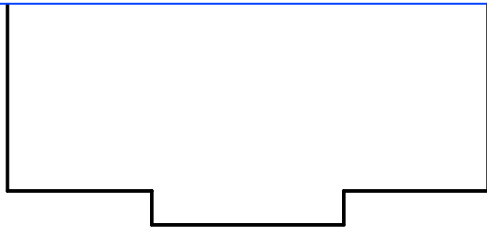
Example of Double 45°
Bevel Cut.

(Side View)

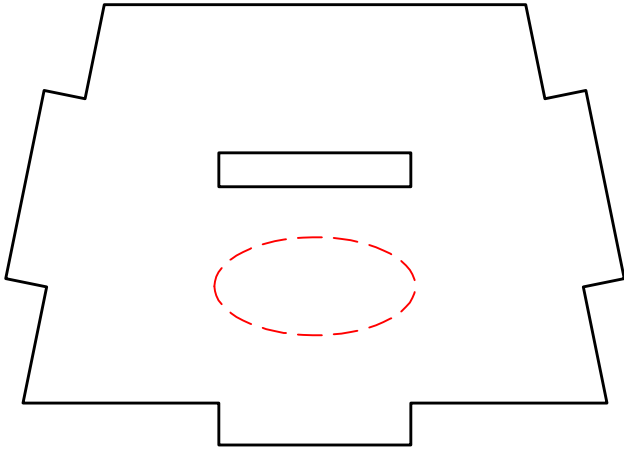


(Isometric View)

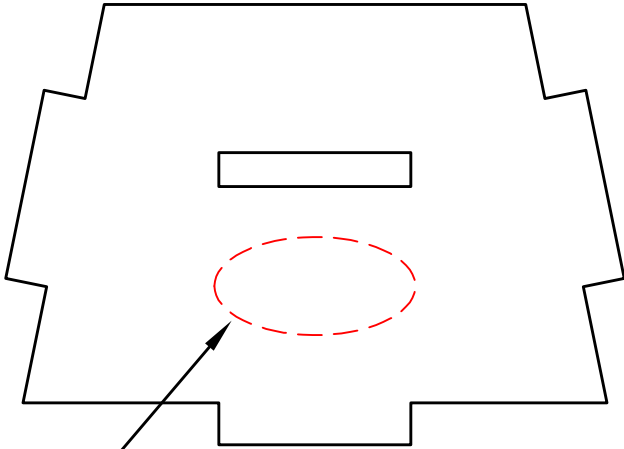




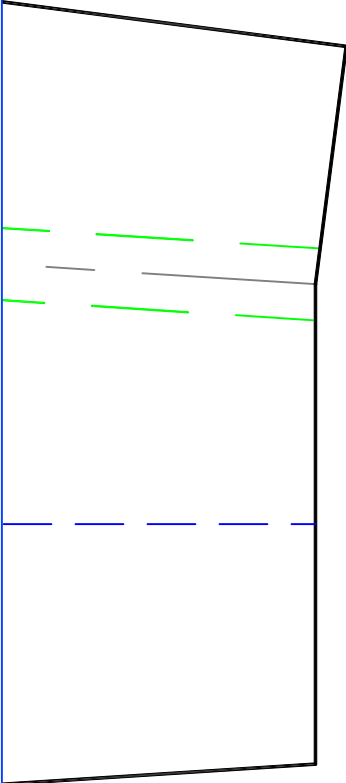
BULKHEAD 2



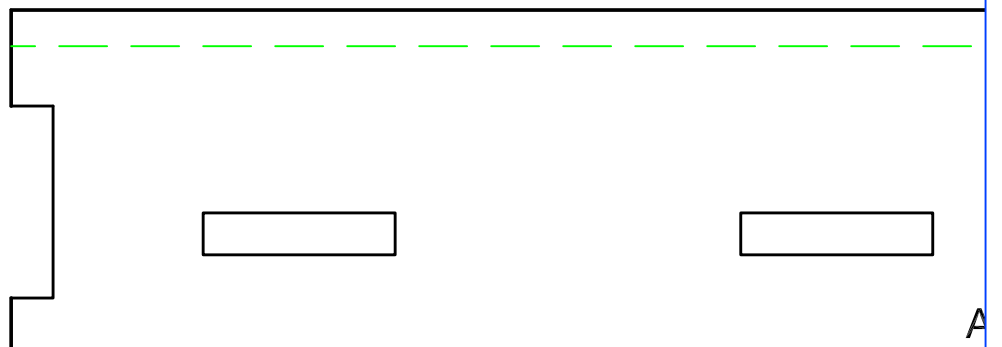
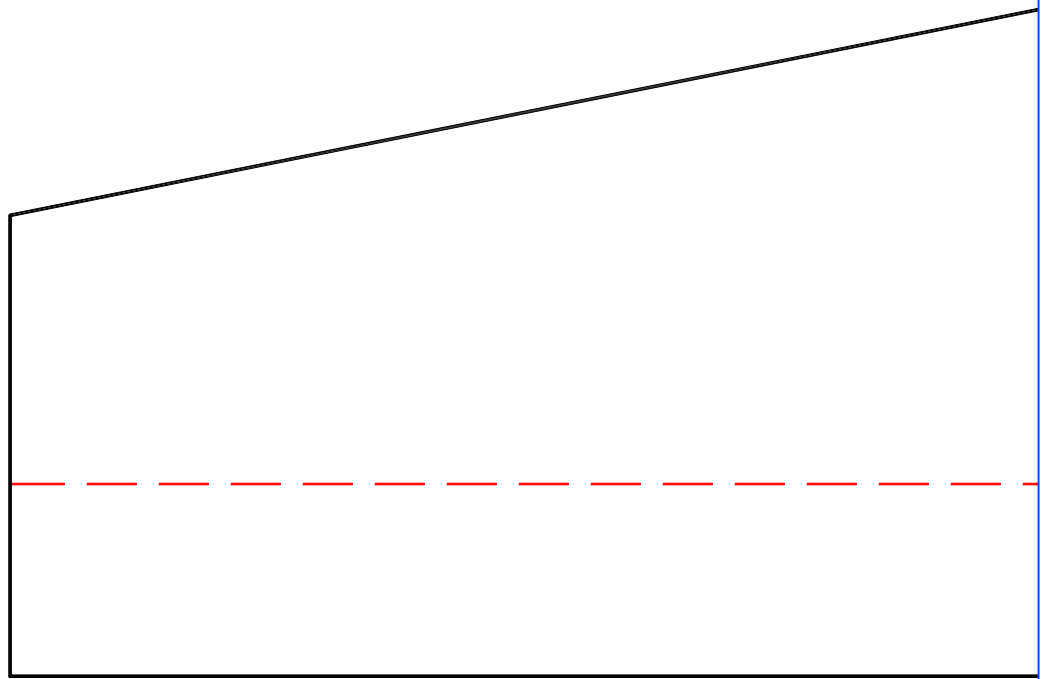
BULKHEAD 3



WIRE HOLE



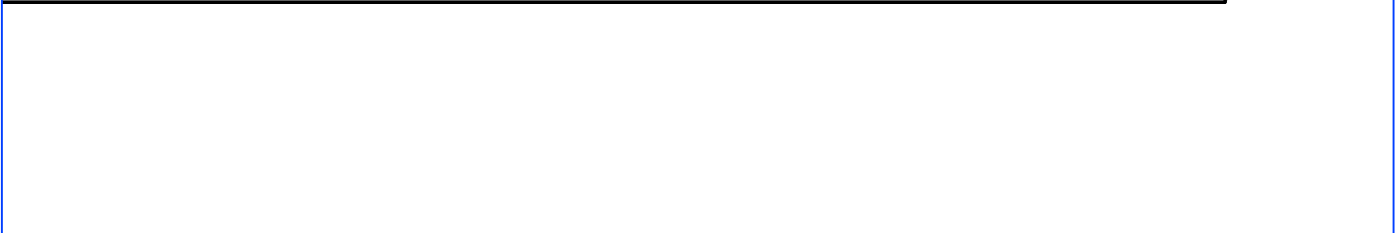
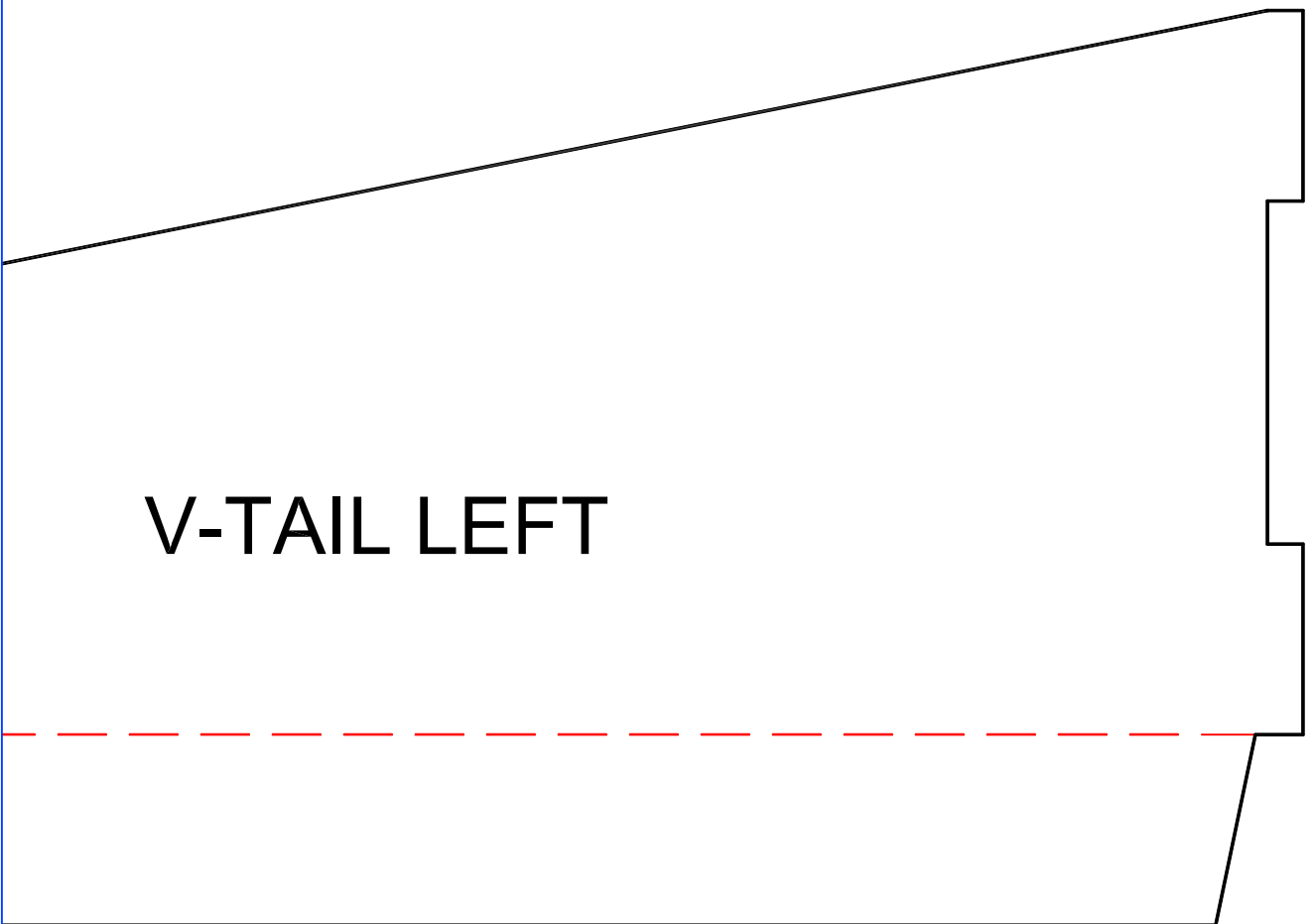
P11



A

P12

V-TAIL LEFT



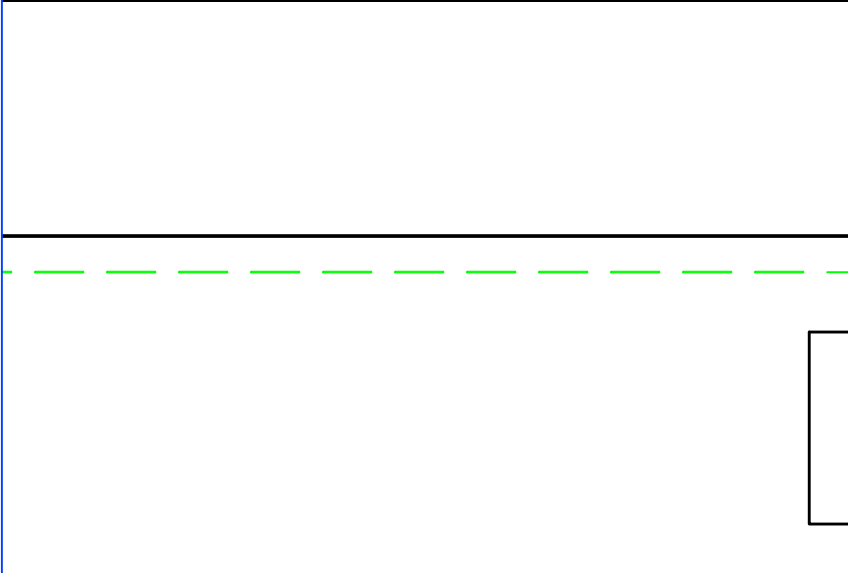
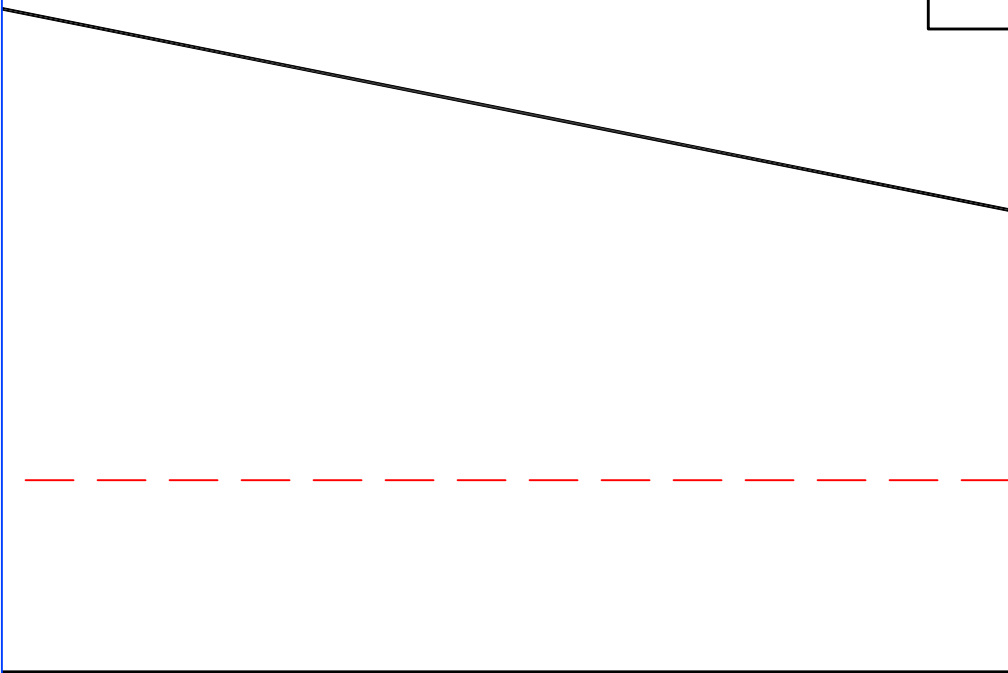
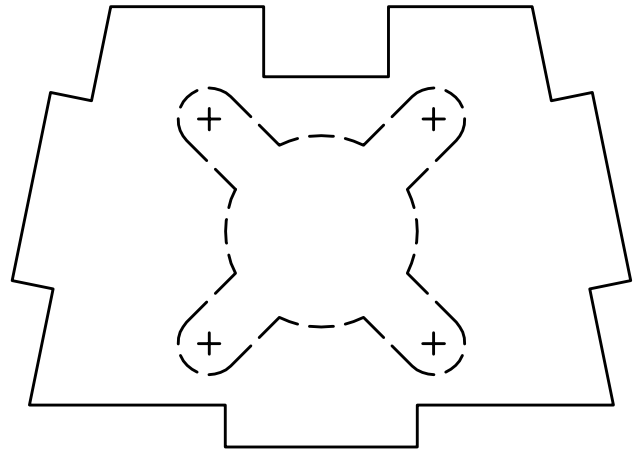
approx. Location



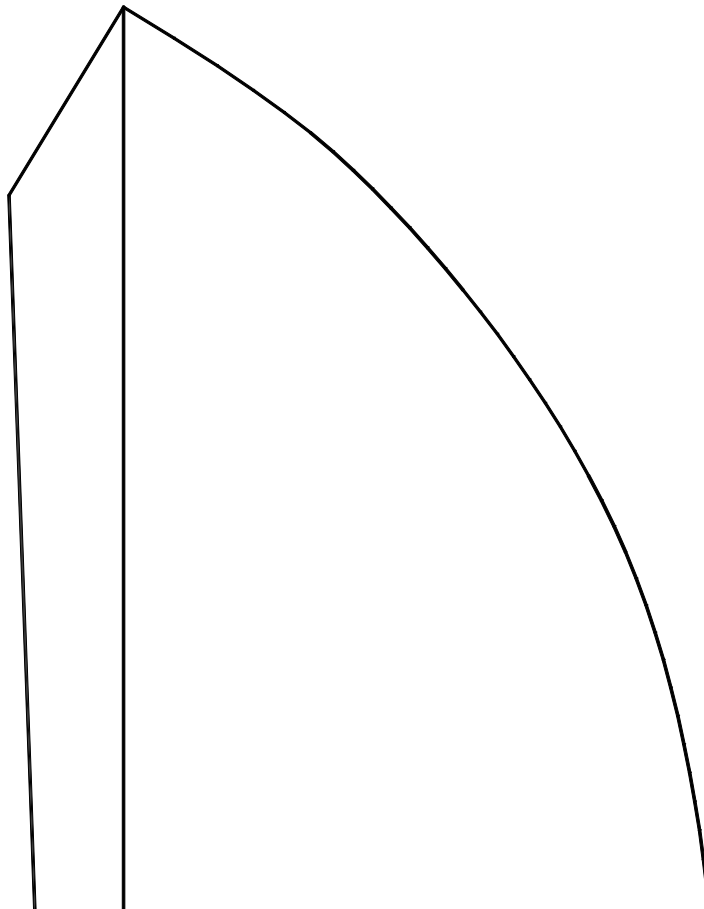
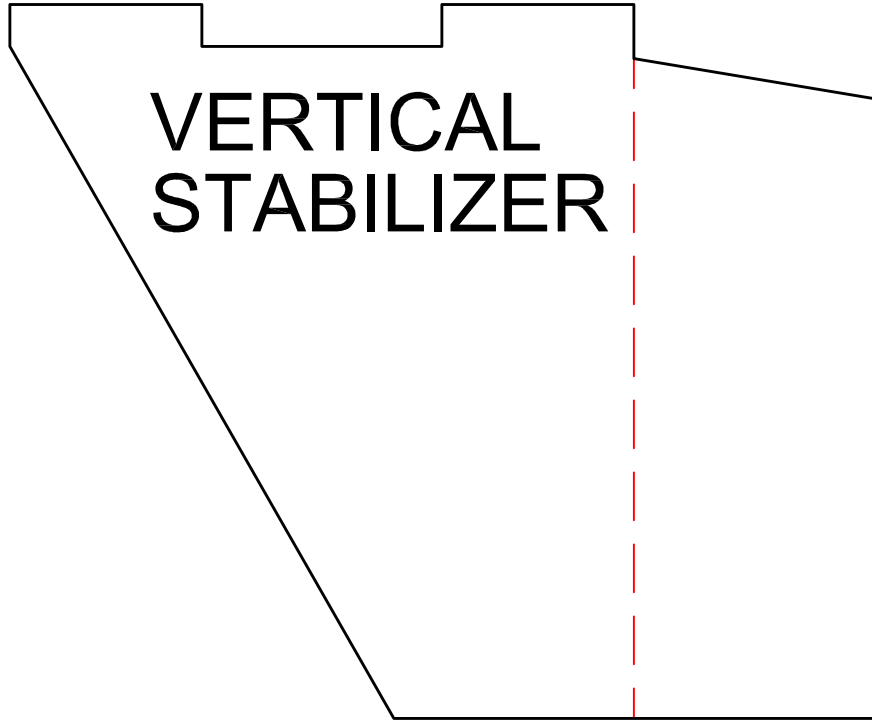
P14

MAKE MOTOR MOUNT
OUT OF 1/16' PLYWOOD
OR DOUBLE LAYER OF
3/32" BASSWOOD.
VERIFY MOTOR MOUNT
HOLES BEFORE
DRILLING!!!

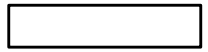
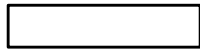
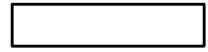
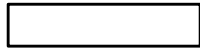
MOTOR MOUNT



P15

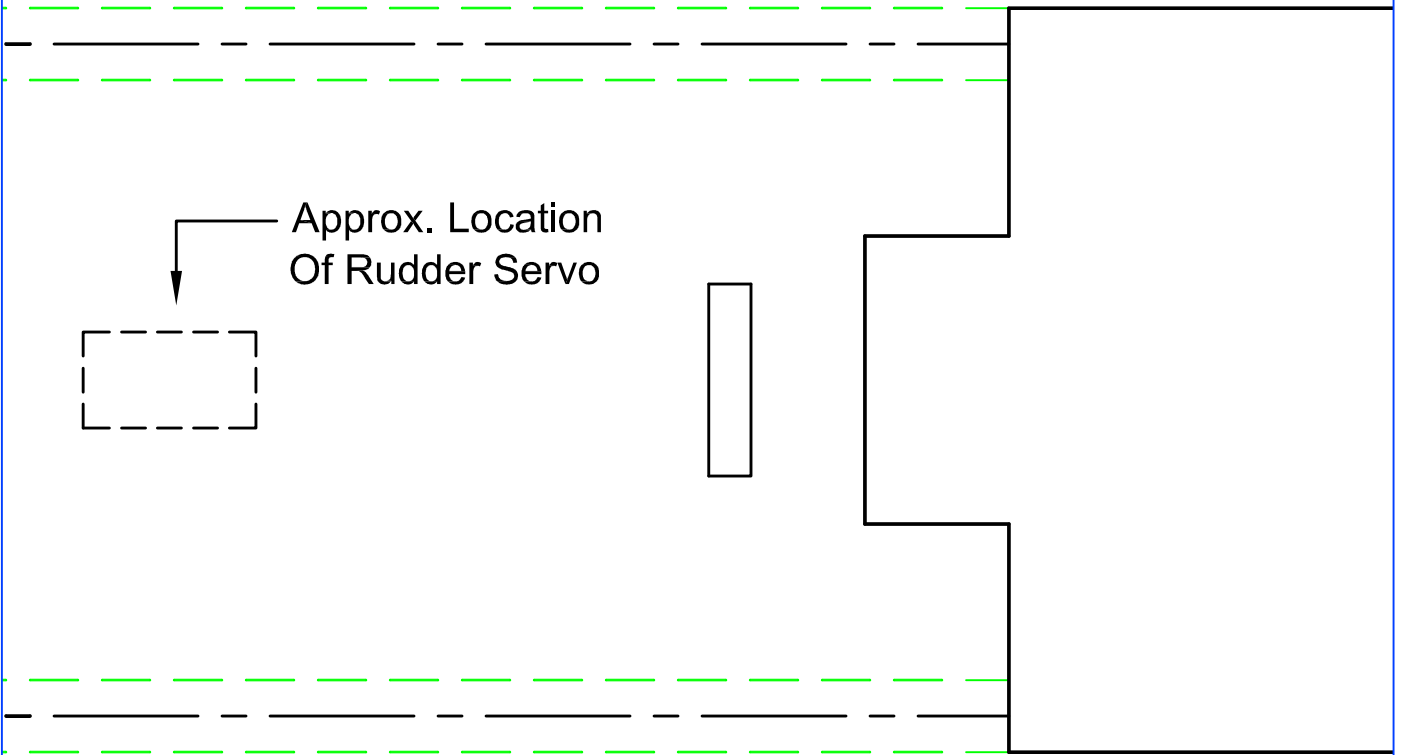


MOTOR
MOUNT SLOT

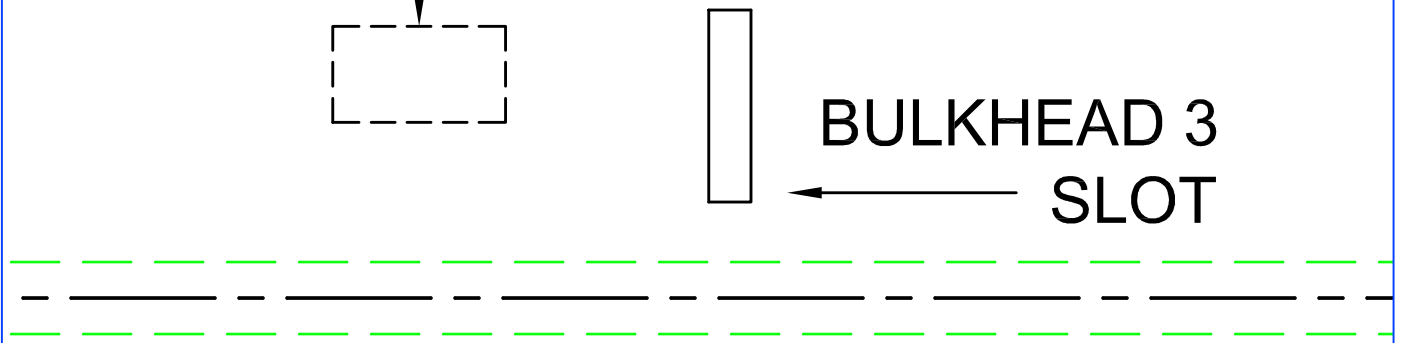


A

Of V-Tail Servo



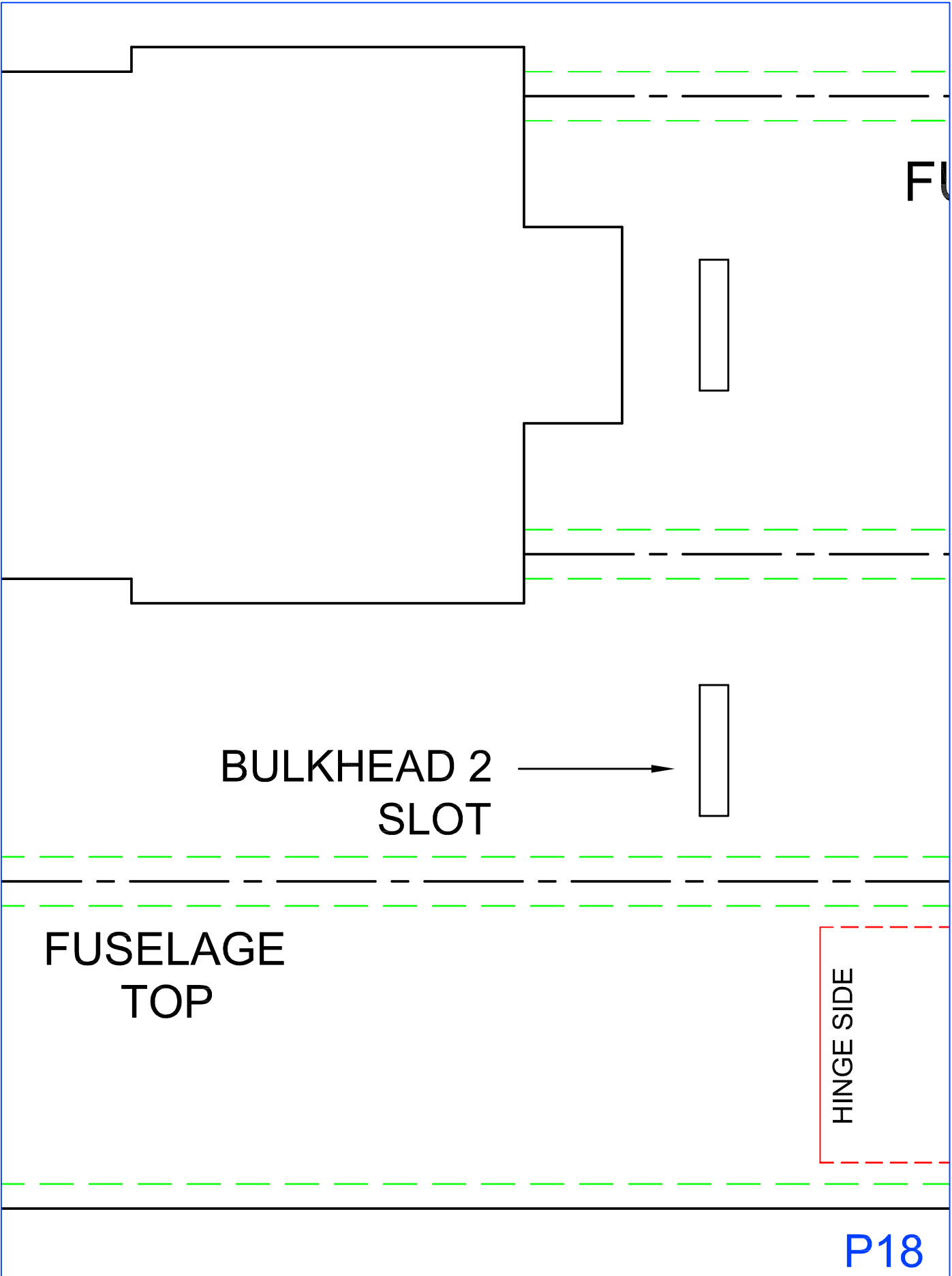
Approx. Location
Of V-Tail Servo



REAR
HATCH

HINGE SIDE

HATCH



BULKHEAD 2
SLOT

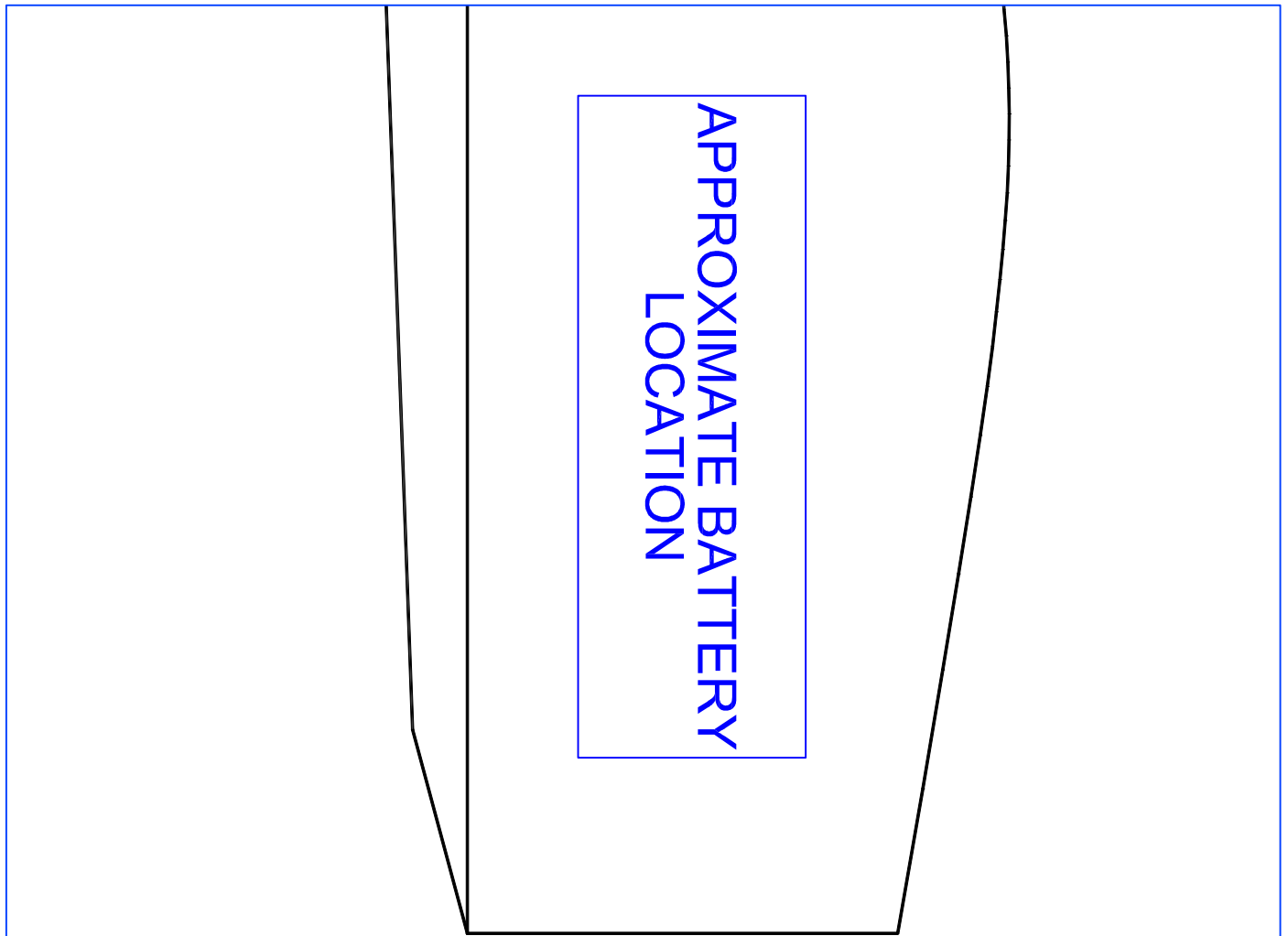
FUSELAGE
TOP

HINGE SIDE

JSELAGE
BOTTOM

BULKHEAD 1 →
MOUNTING
SLOT

FRONT
HATCH



MAKE NOSE OUT OF EPP FOAM, STYROFOAM OR BLUE CORE FOAM. START WITH FOAM BLOCK AT LEAST 3.5 INCHES THICK. USE THIS TEMPLATE TO CUT, THEN MANUALLY SHAPE AND ROUND. BATTERY SLOT TO BE CUT AS NEEDED FROM TOP SIDE OF NOSE. IMPROVISE BATTERY BAY HATCH WITH SPARE FOAMBOARD.