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

(RC Model Airplane Construction Plans)

rcFoamFighters

FF-22 (Foam Fighter 22)

(Original Design by Paul Petty - Jan. 2009)

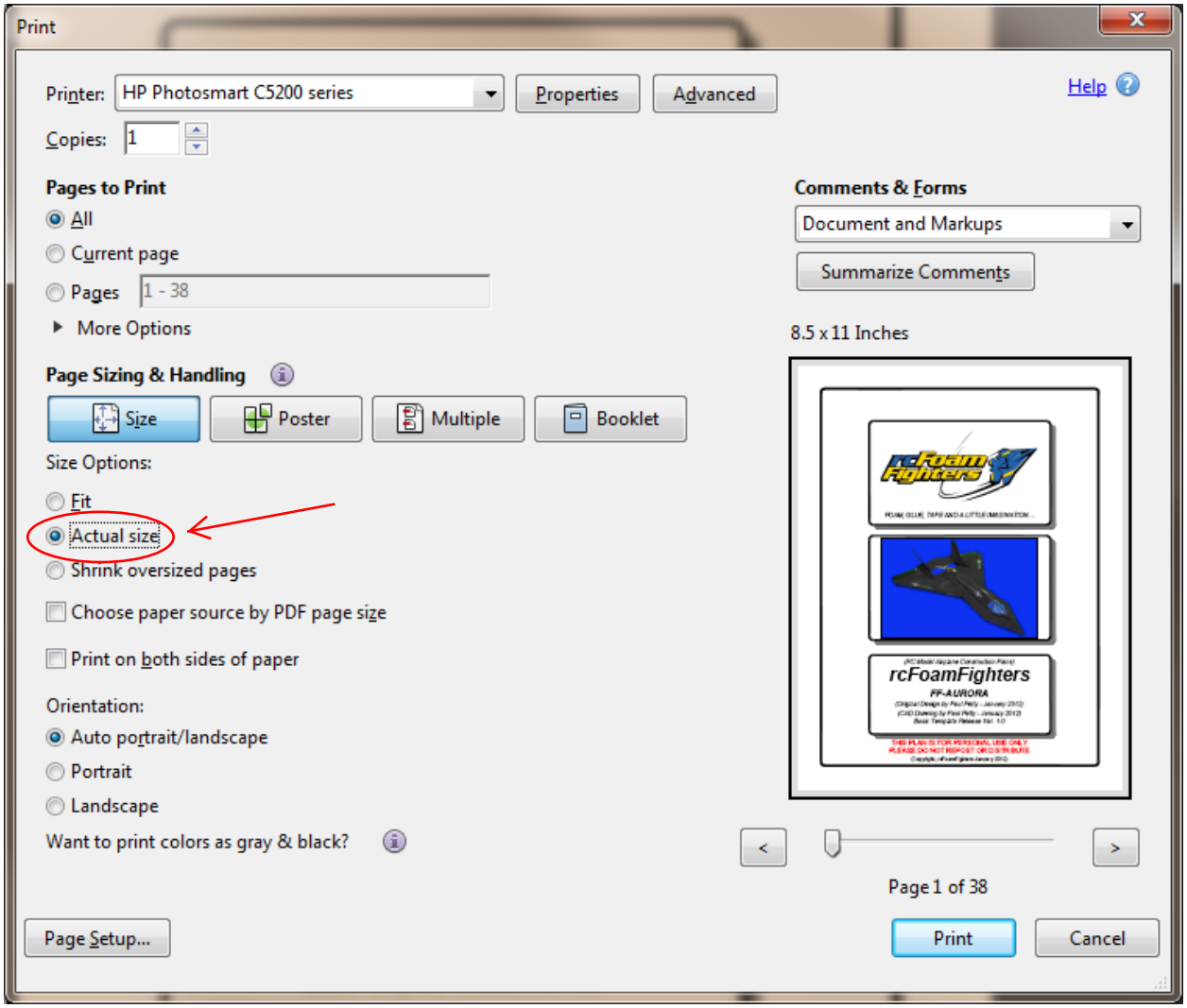
(CAD Drawing by Paul Petty - July 2009)

Basic Template Release Ver. 1.2

FREE PLAN - NOT TO BE SOLD

Very Important Printing Instructions!!!!

Make sure you print to "Actual Size" or your plan may come out the wrong scale. Do not use "Fit" or "Shrink oversized pages". Older Acrobat versions may also list "Fit to Printable Area" or similar as the default. Make sure you Select "Actual Size" or "Scaling to None" or similar setting to print your plans correctly. See example below.



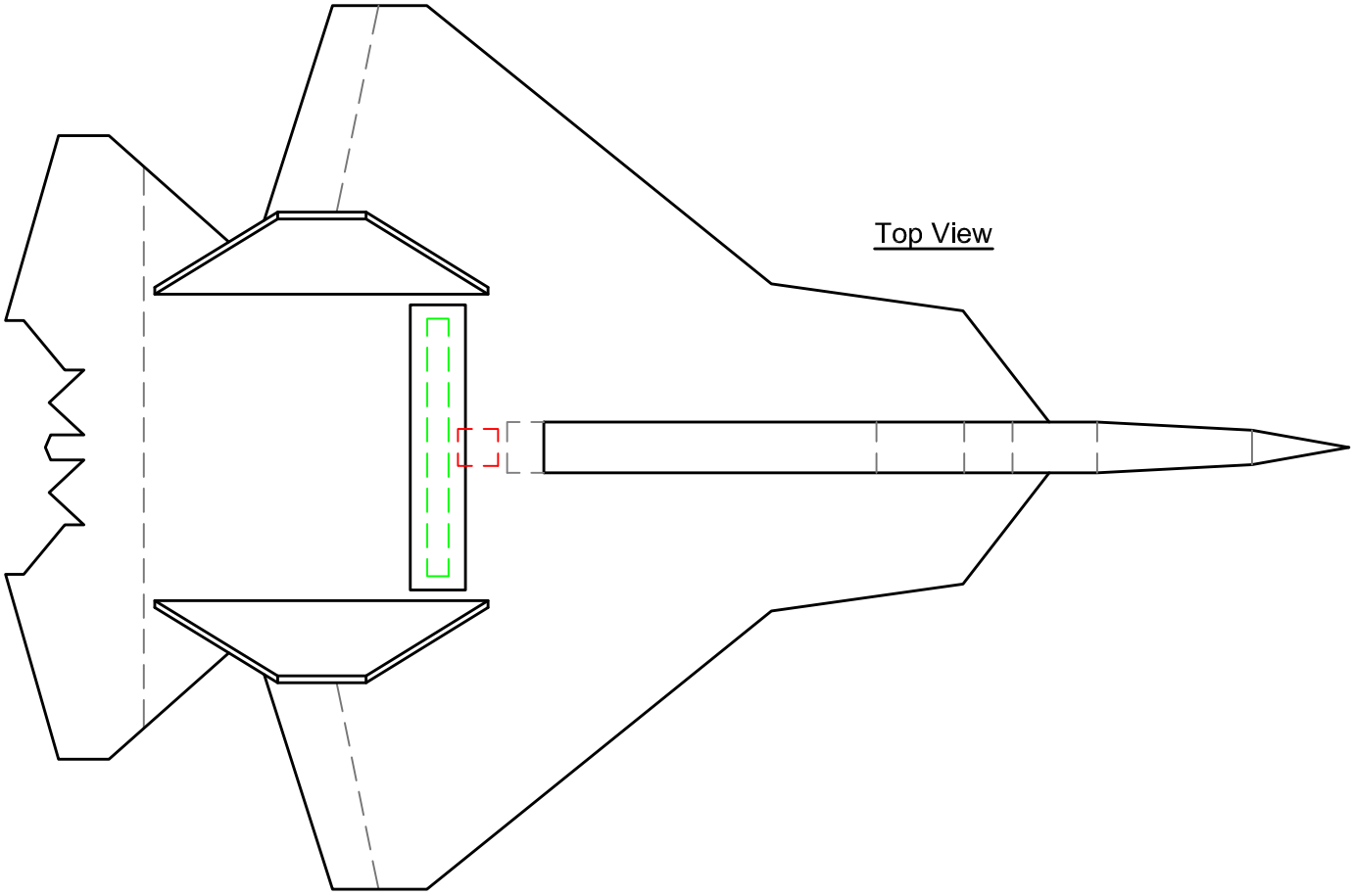
rcFoamFighters

FF-22 (Foam Fighter 22)
Basic Template

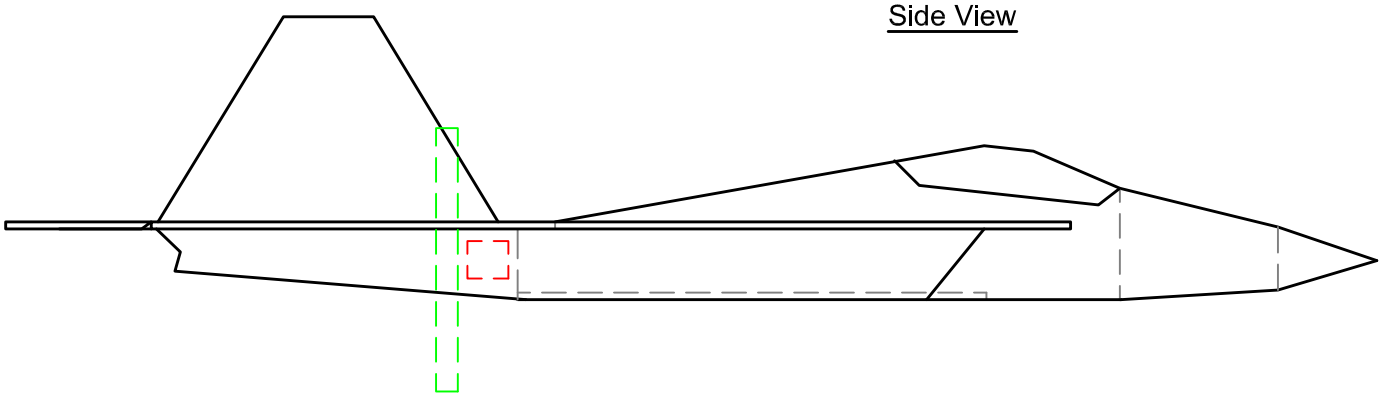
(Original Design by Paul Petty - Jan. 2009)
(CAD Drawing by Paul Petty - July 2009 Rev. 1.2)

(Contact rcFoamFighters at: admin@rcfoamfighters.com)
(Please Visit Our Blog at: http://rcfoamfighters.com/blog/

Top View



Side View



Recommend Parts:

BASIC SETUP (60+mph)

Motor: Suppo A2212/6 2200kV Brushless Motor
ESC: Suppo 30A Brushless ESC
Prop: APC 6x4
Battery: 2200mA (25C or better recommended)
Servos: 3 Each Micro Metal Gear
Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

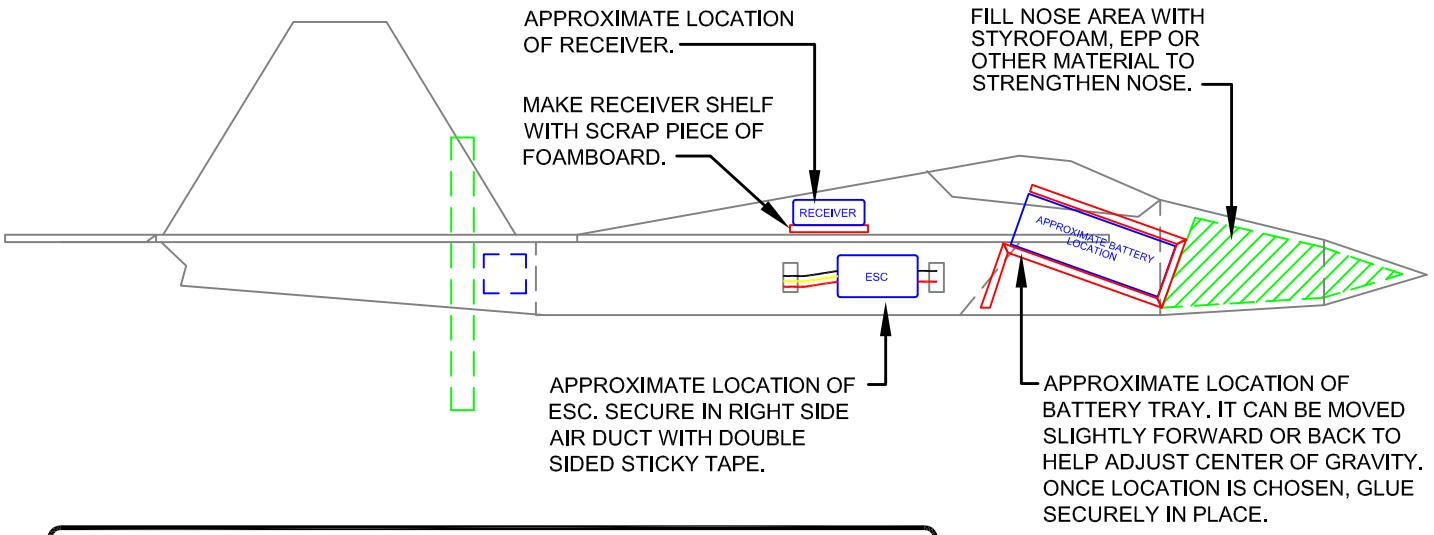
PERFORMANCE SETUP (80+mph)

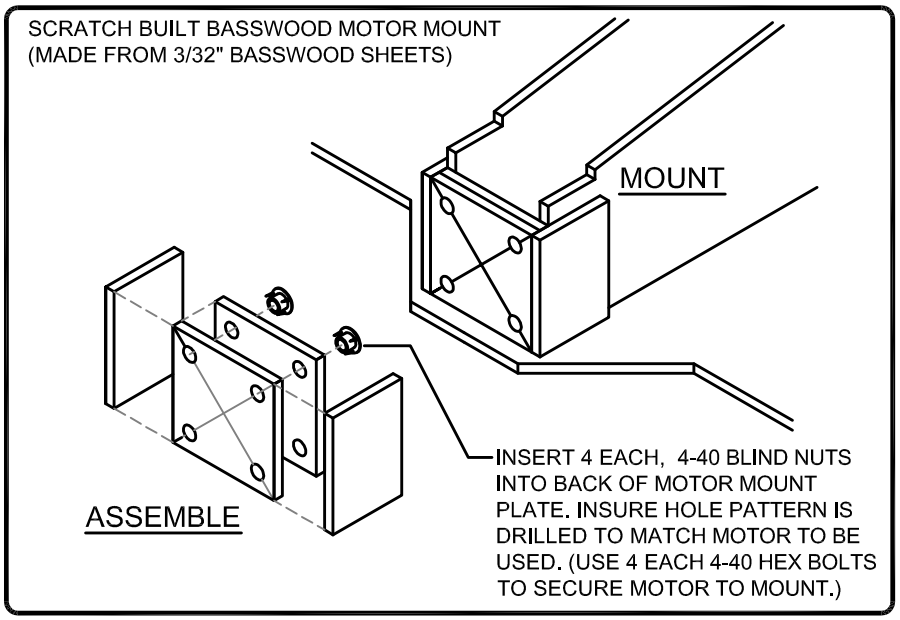
Motor: Grayson Hobbies "Super Mega Jet" 2550kV Motor
ESC: 40A Brushless ESC
Prop: APC 6x5.5
Battery: 2200mA (30C recommended)
Servos: 3 Each Micro Metal Gear
Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

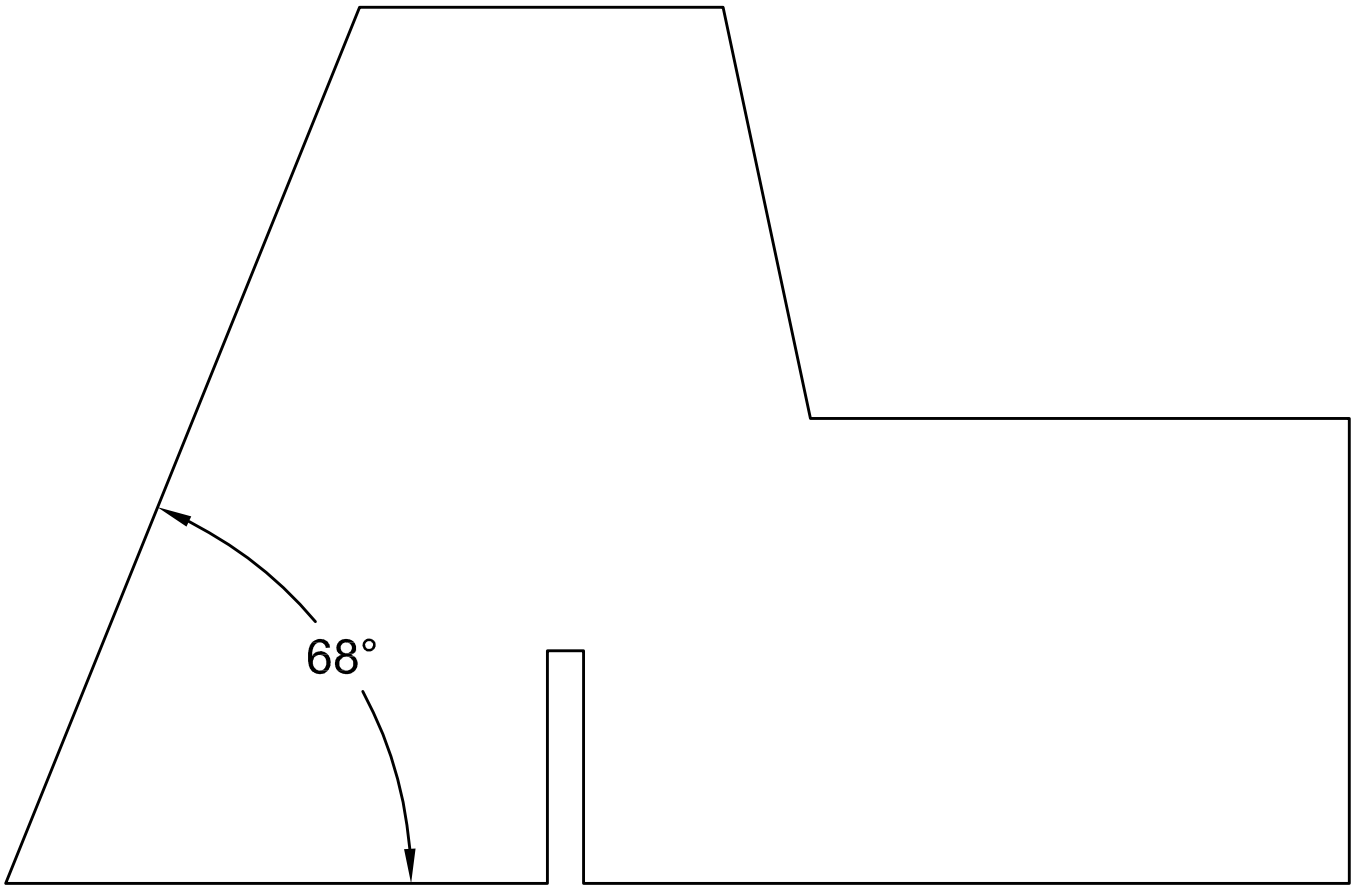
Plane was originally designed to be made from 3 Sheets of 20x30 Foamboard.
Depron or FanFold Foam can be used with improvised Carbon Spars where needed .

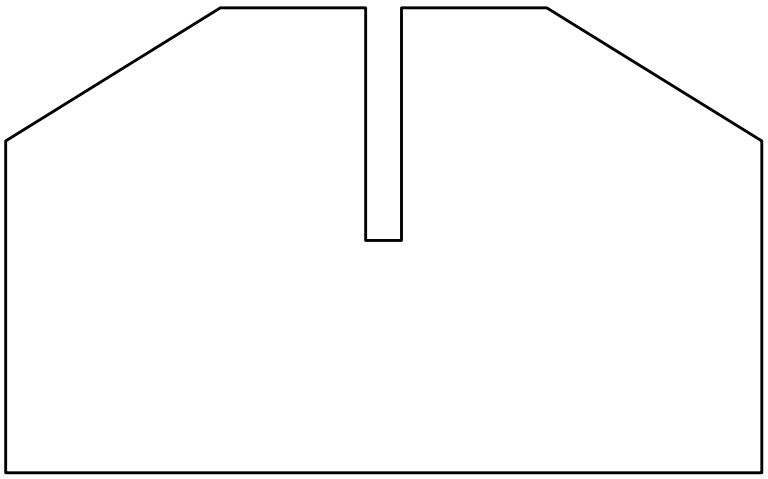
Disclaimer (Please Read):

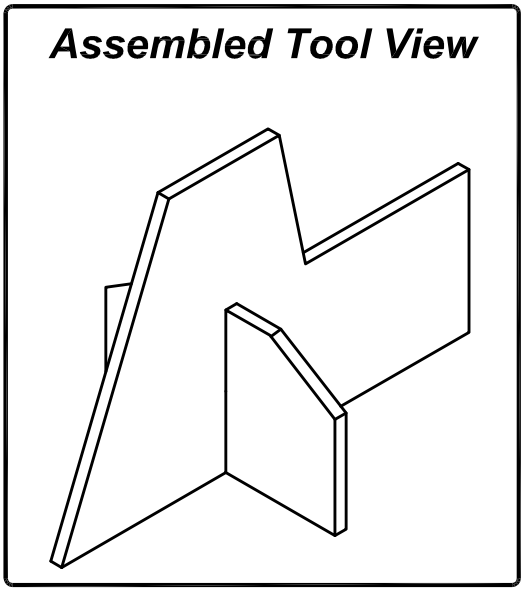
- This is a design template for a high performance, high speed RC aircraft. This plane should only be built and flown by experienced pilots with adequate skill to fly fast, maneuverable planes.
- DO NOT fly this plane where it can endanger people, livestock or property.
- Any persons deciding to build and fly this plane does so at his/her own risk. rcFoamFighters assumes no responsibility for the performance of this plane.
- This plane should only be launched via the side launch method. Do not attempt to launch from the top or bottom of the fuselage. 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.





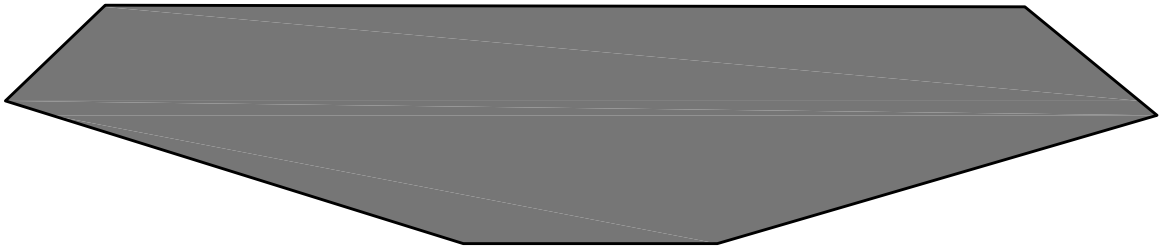






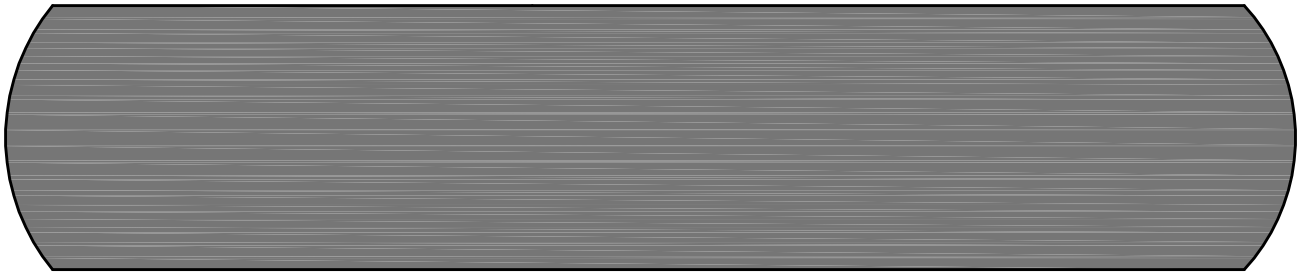
TAIL FIN ANGLE TEMPLATE TOOL

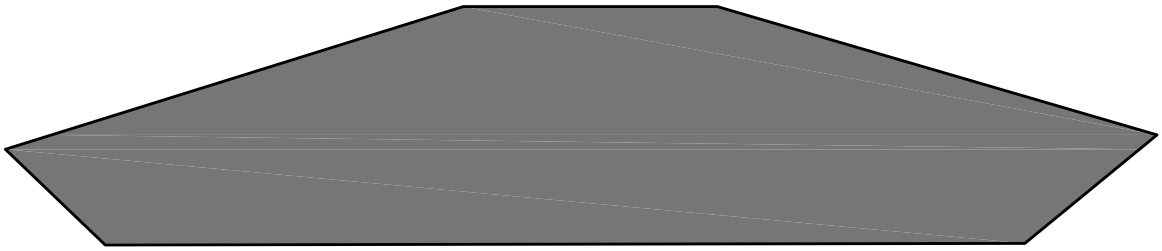
These can be used as patterns to cut out the Tail Fin Angle Template Tool out of Foam Board or other material. Use this tool after assembled to hold the Tail Fins at the proper 68°while your adhesive dries.



FRONT

BACK





Cockpit Glass Templates

These can be used as patterns to cut the cockpit glass out of black tape or other material.

Tail Fin Decals

Best if printed to glossy paper.
Print, Cut Out and Use clear tape
to adhere to plane.

Wing Decals

Best if printed to glossy paper.
Print, Cut Out and Use clear tape
to adhere to plane.

TEMPLATE ASSEMBLY KEY PLAN

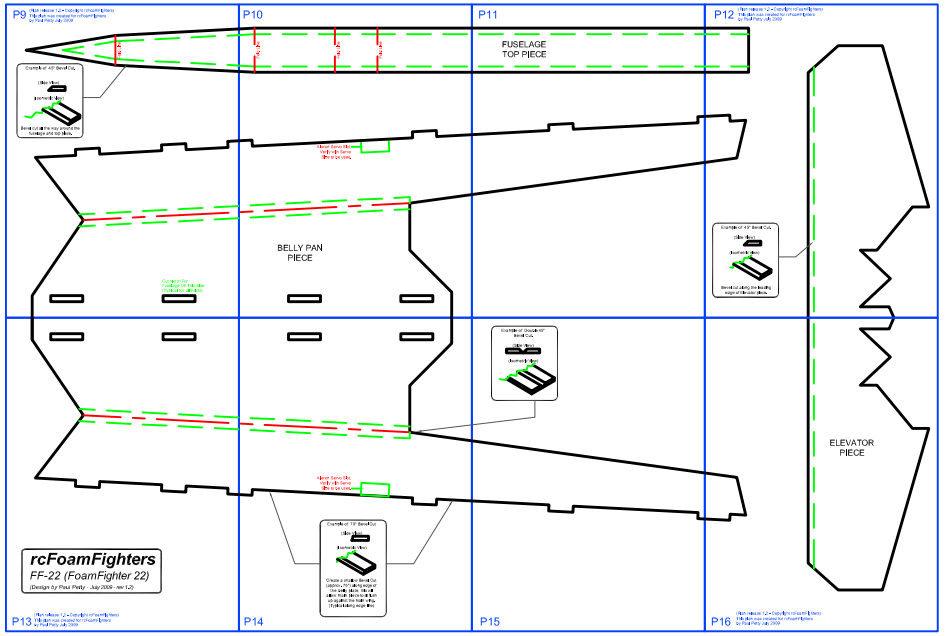
rcFoamFighters

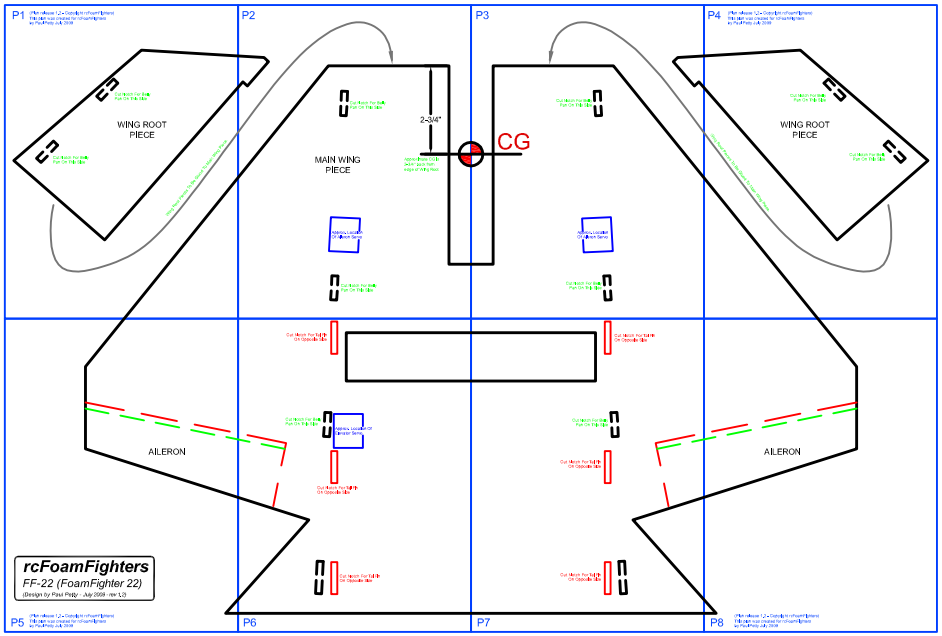
FF-22 (Foam Fighter 22)

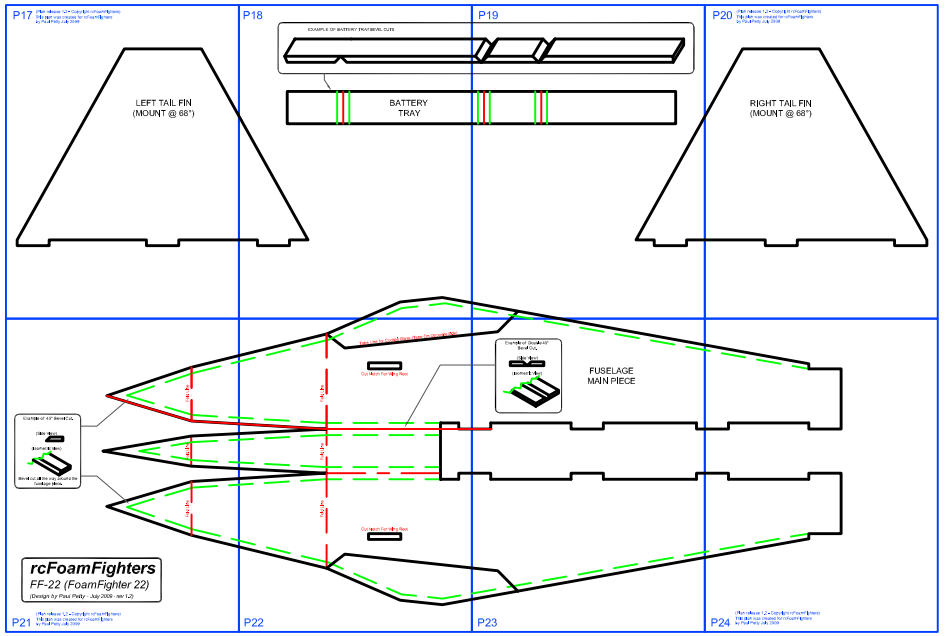
(Design by Paul Petty - Jan. 2009 - Rev 1.1)

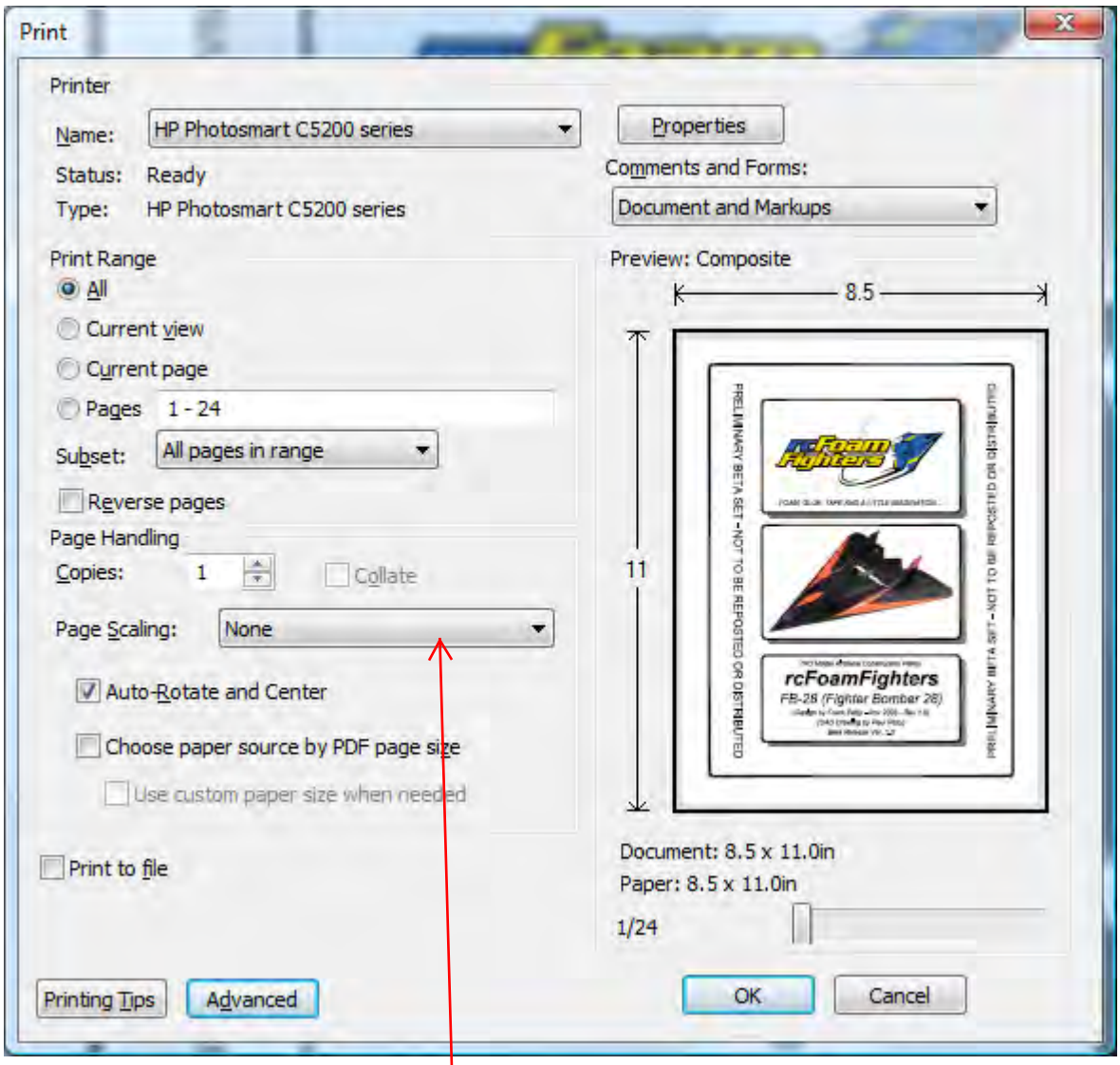
(CAD Drawing by Paul Petty - Mar. 2009)

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



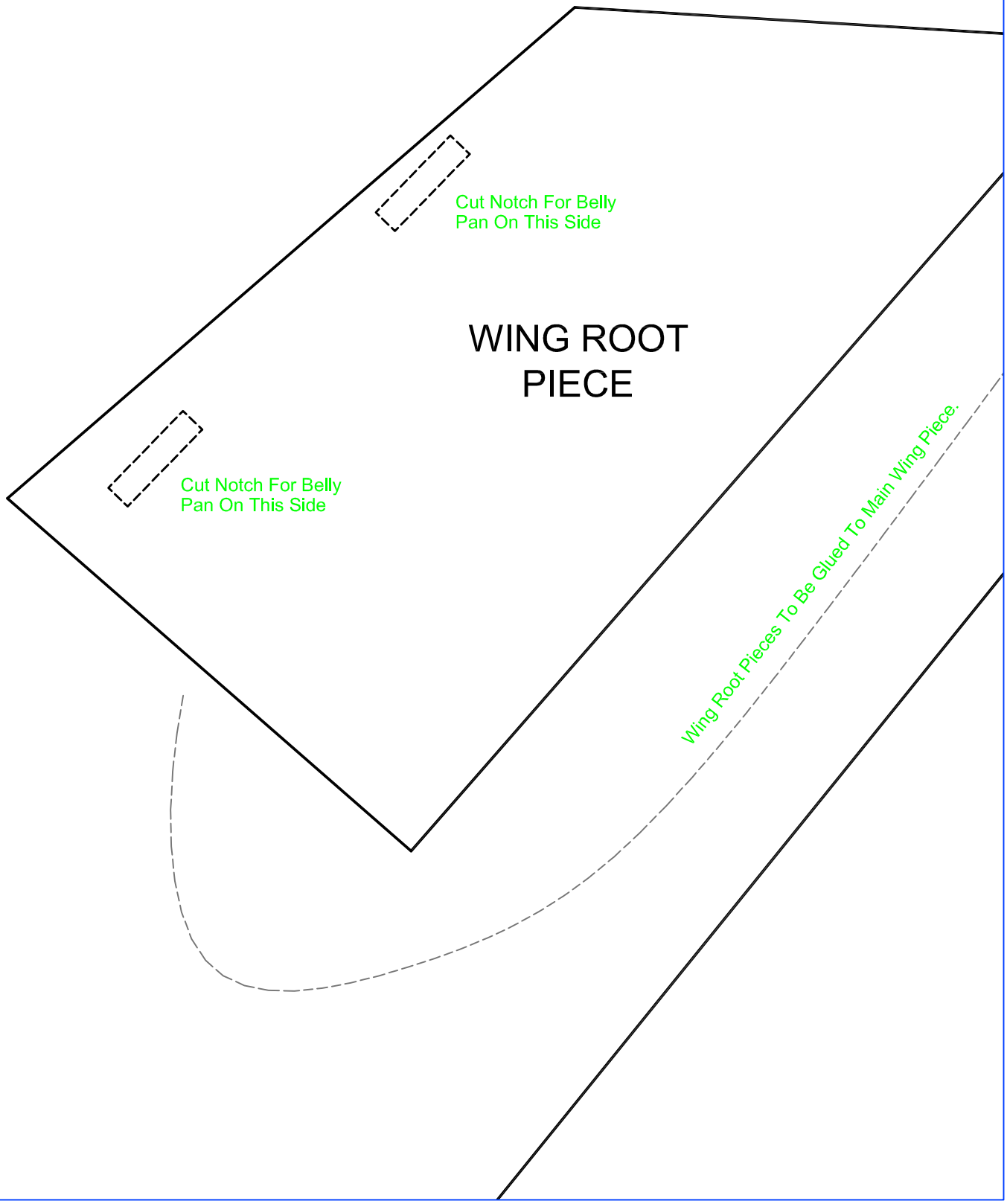




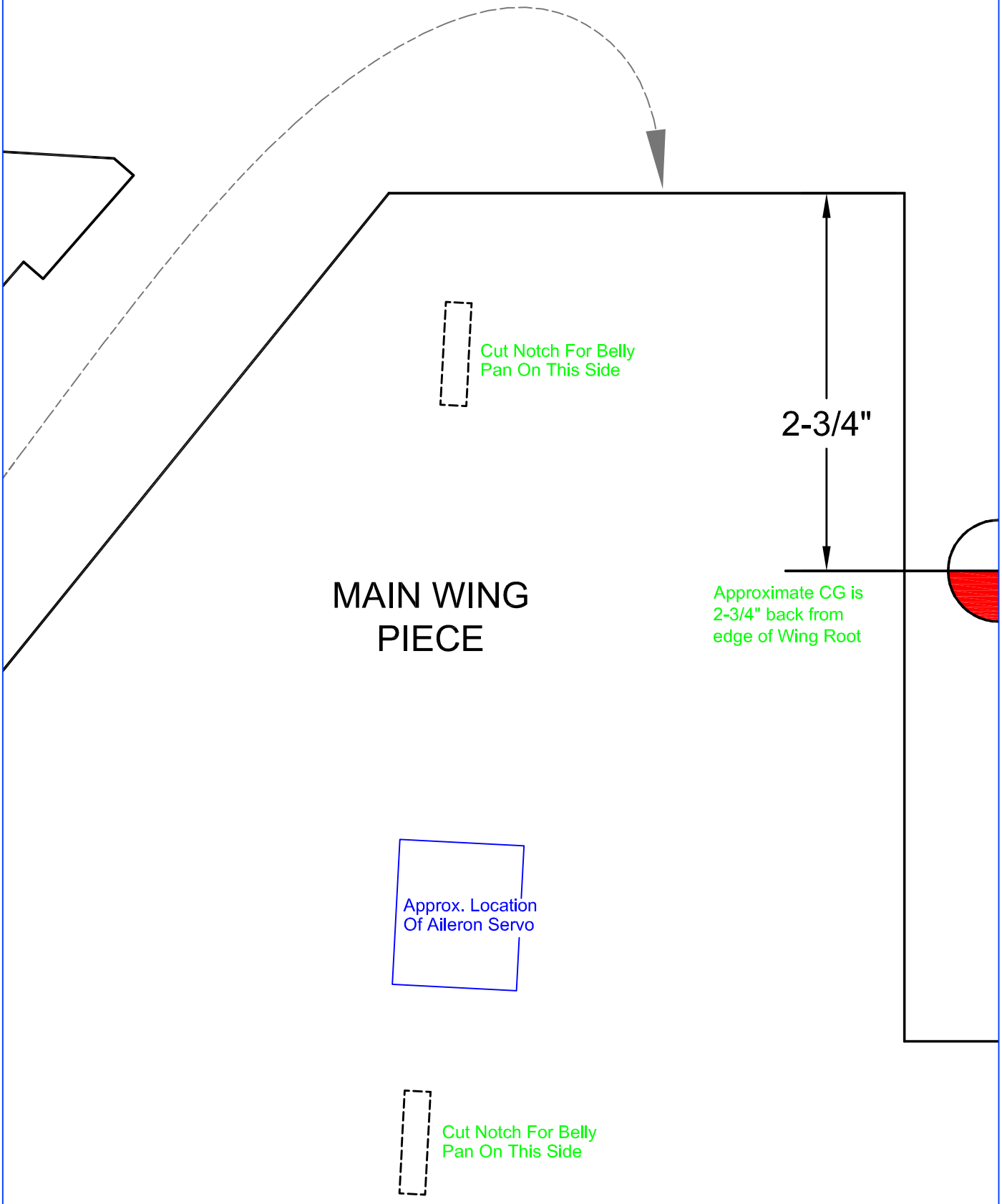


When you print the templates, Make sure you pick "None" for page scaling otherwise pages may not print to proper scale.

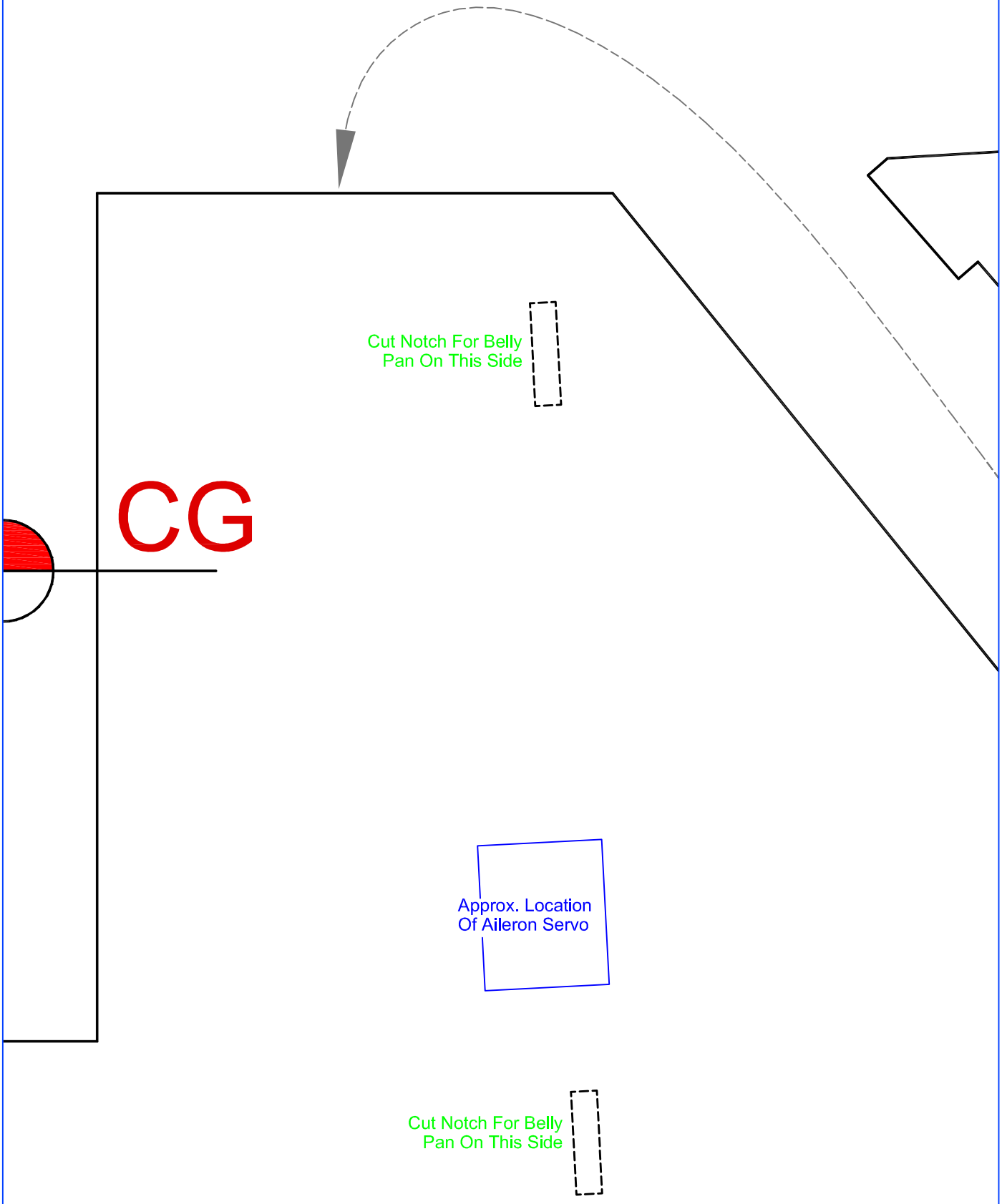
P1 (Plan release 1.2 - Copyright rcFoamFighters)
This plan was created for rcFoamFighters
by Paul Petty July 2009



P2

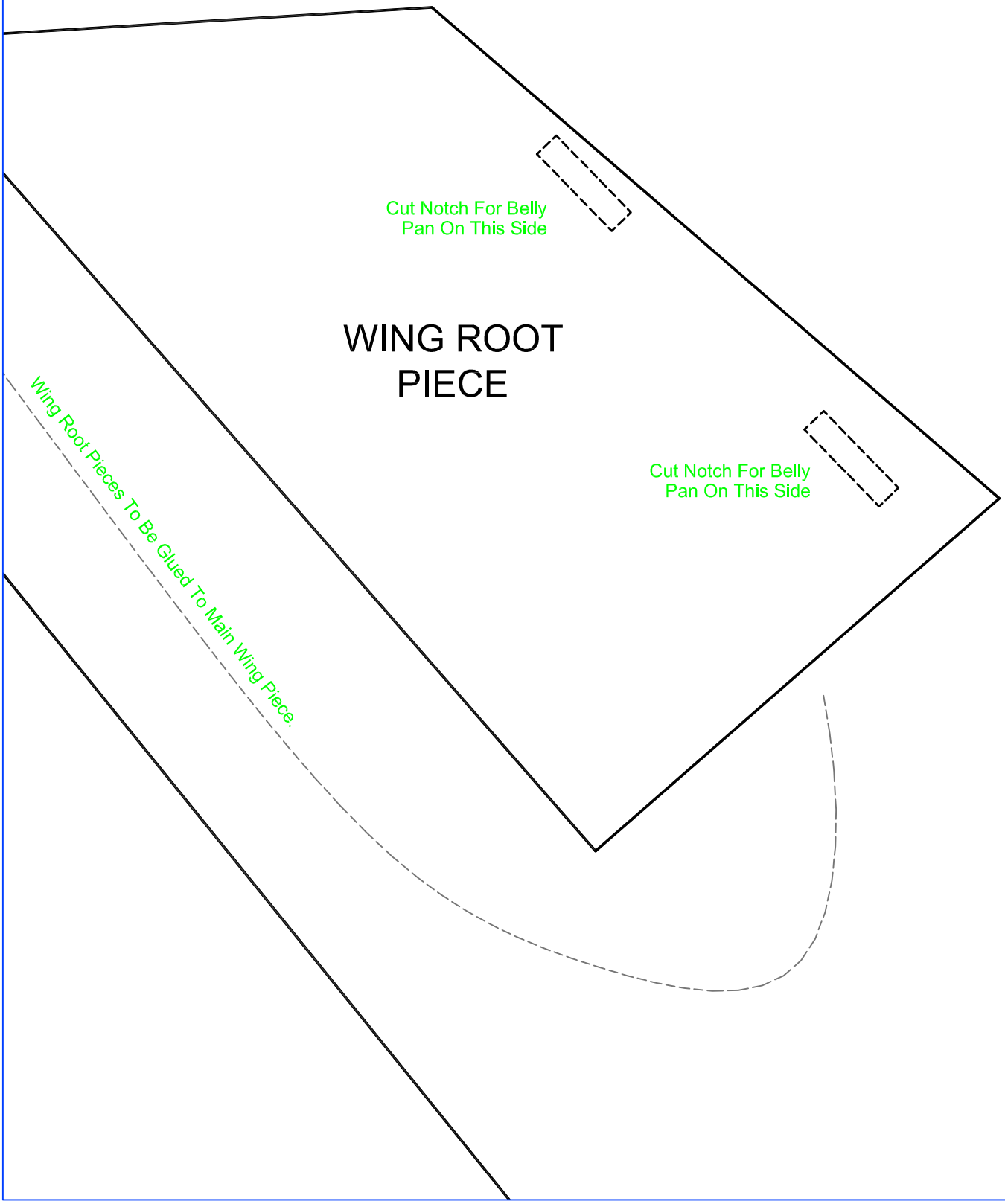

Cut Notch For Belly
Pan On This Side
2-3/4"
MAIN WING
PIECE
Approximate CG is
2-3/4" back from
edge of Wing Root
Approx. Location
Of Aileron Servo
Cut Notch For Belly
Pan On This Side

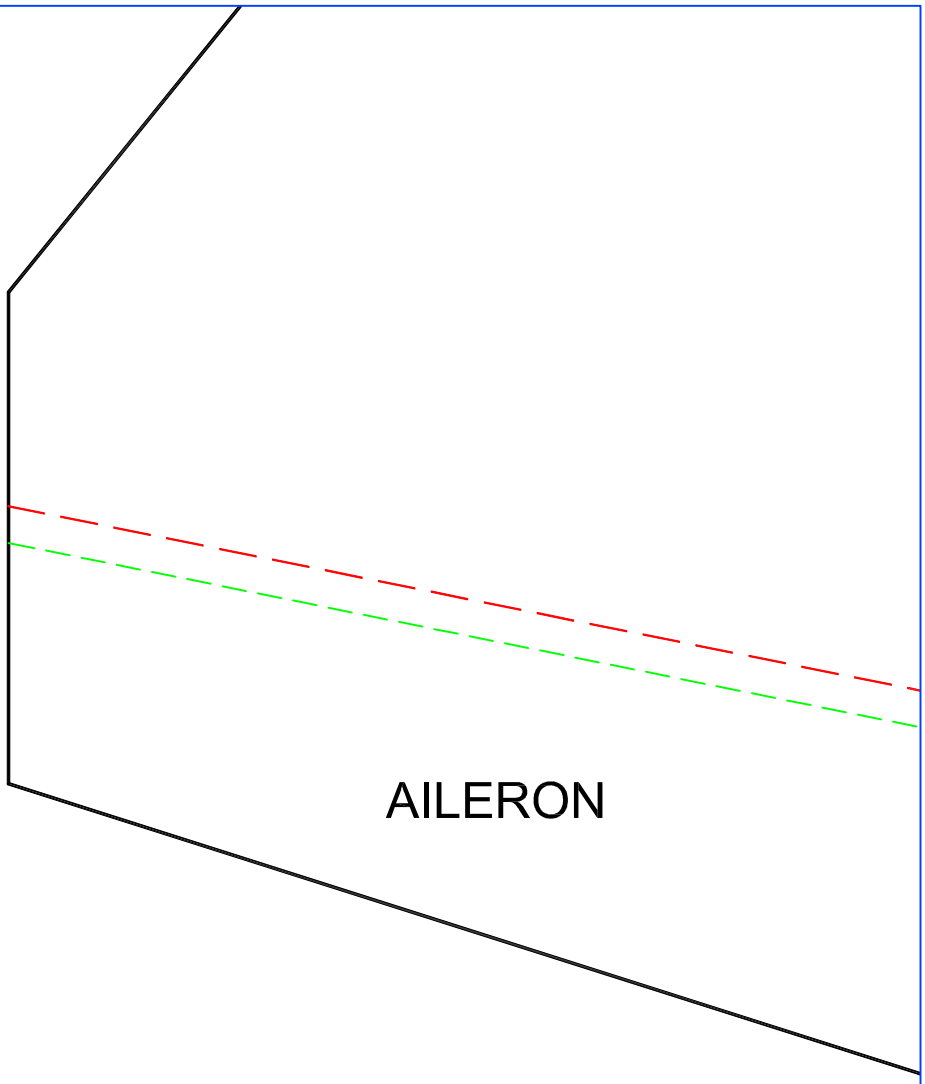
P3


Cut Notch For Belly
Pan On This Side
CG
Approx. Location
Of Aileron Servo
Cut Notch For Belly
Pan On This Side

P4

This plan was created for rcFoamFighters
by Paul Petty July 2009





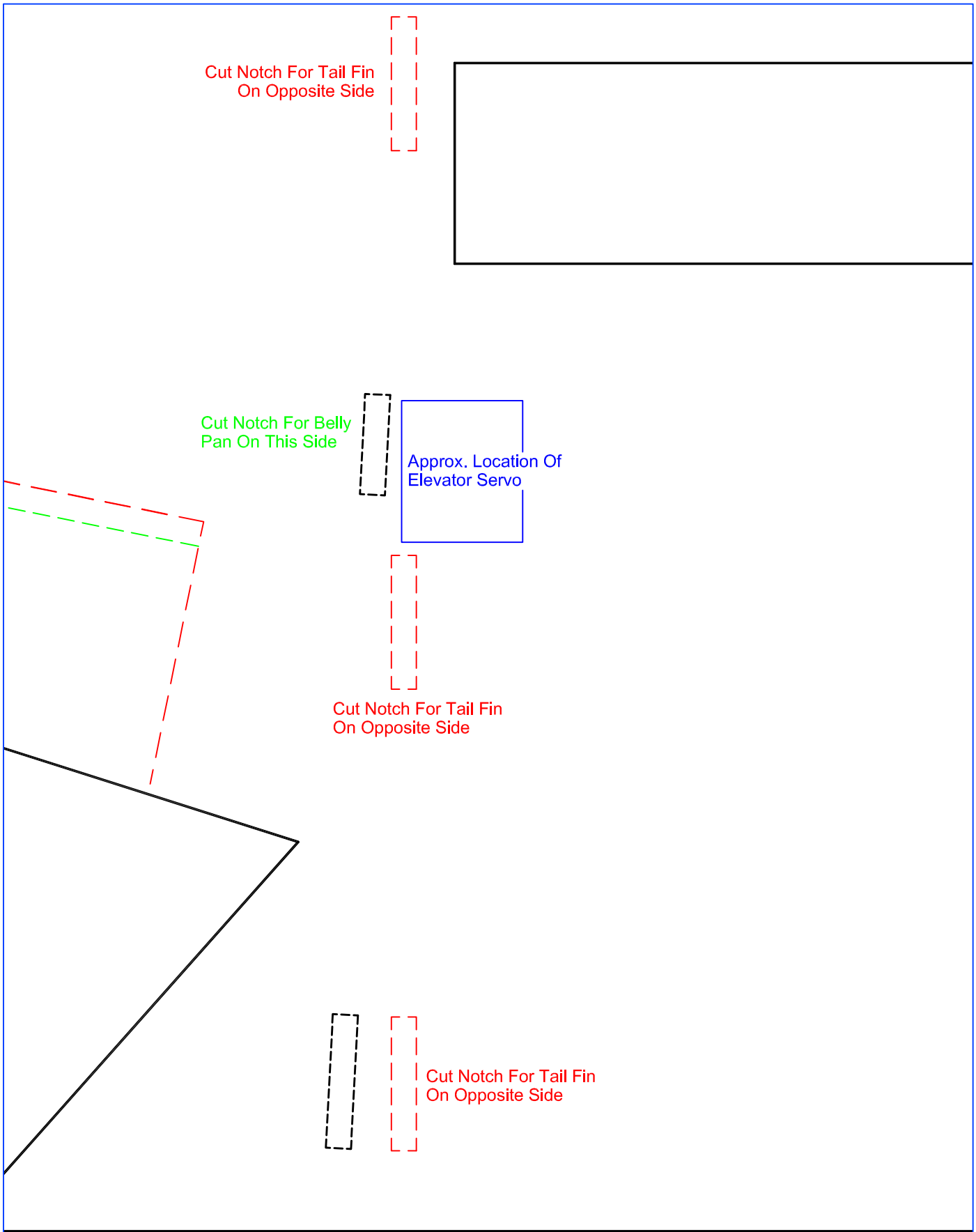
rcFoamFighters

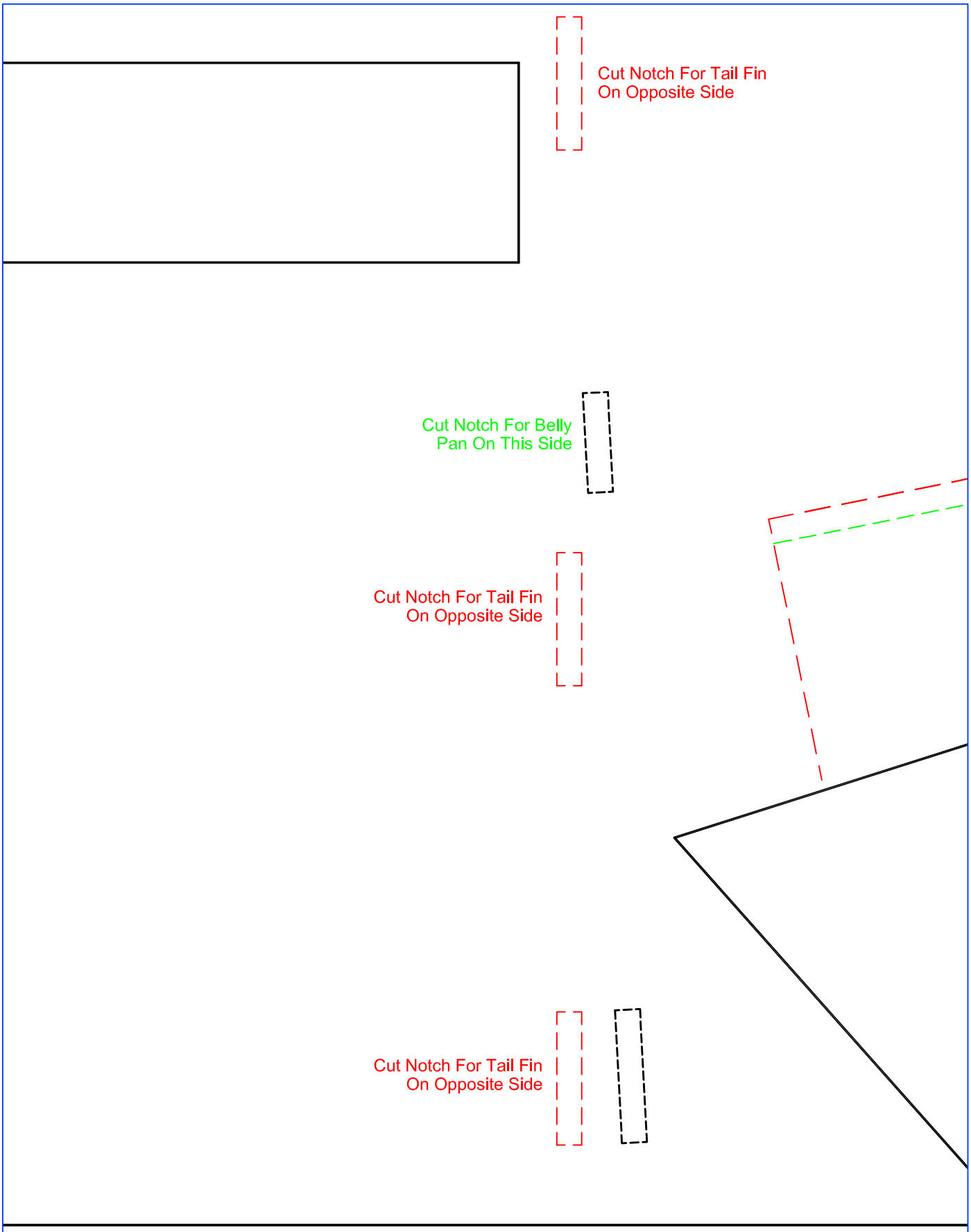
FF-22 (FoamFighter 22)

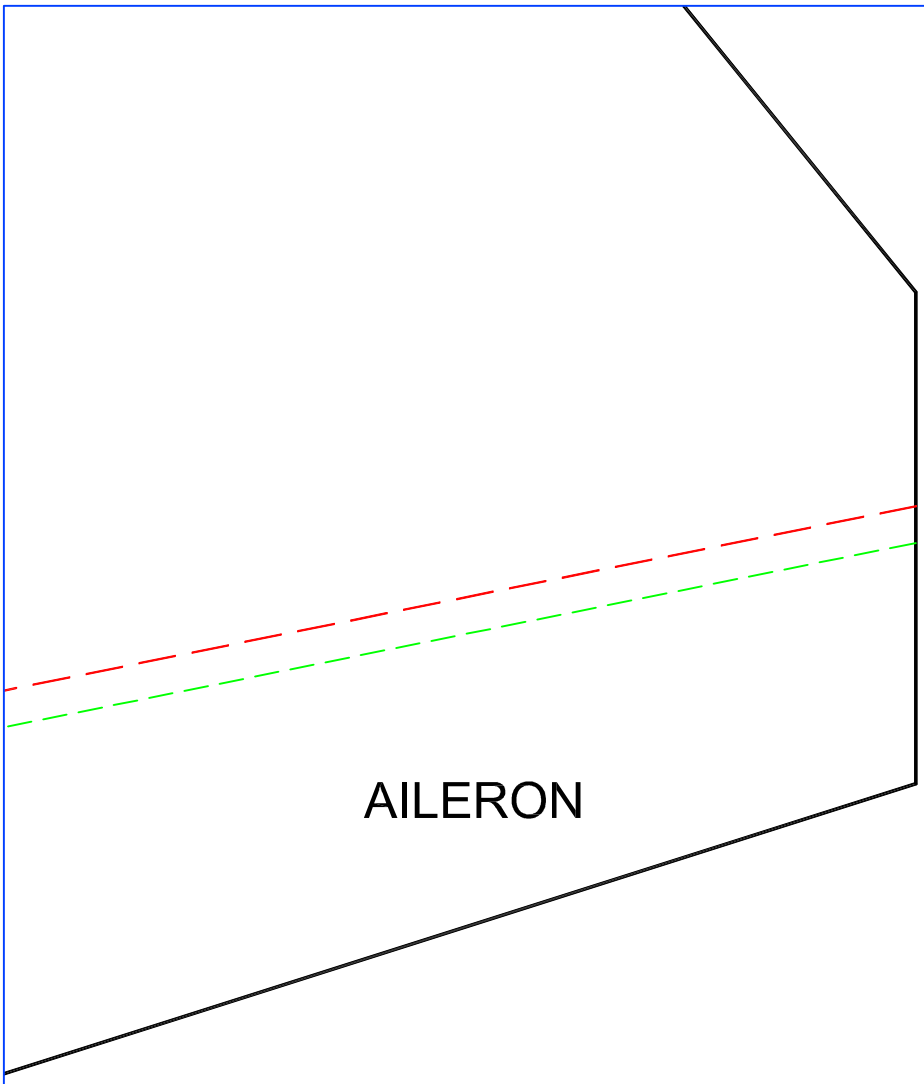
(Design by Paul Petty - July 2009 - rev 1.2)

P5

This plan was created for rcFoamFighters
by Paul Petty July 2009


Cut Notch For Tail Fin
On Opposite Side
Cut Notch For Belly
Pan On This Side
Approx. Location Of
Elevator Servo
Cut Notch For Tail Fin
On Opposite Side
Cut Notch For Tail Fin
On Opposite Side


Cut Notch For Tail Fin
On Opposite Side
Cut Notch For Belly
Pan On This Side
Cut Notch For Tail Fin
On Opposite Side
Cut Notch For Tail Fin
On Opposite Side

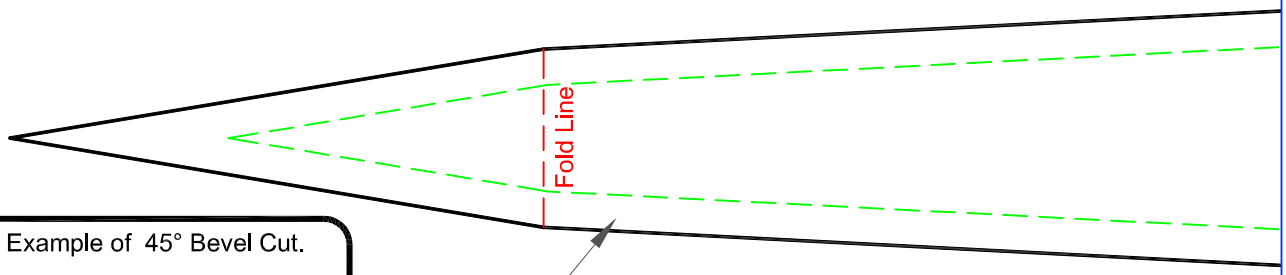


P8

This plan was created for rcFoamFighters
by Paul Petty July 2009

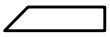
P9

This plan was created for rcFoamFighters
by Paul Petty July 2009

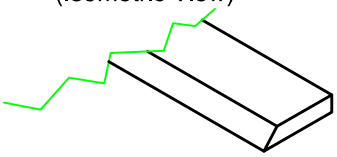


Example of 45° Bevel Cut.

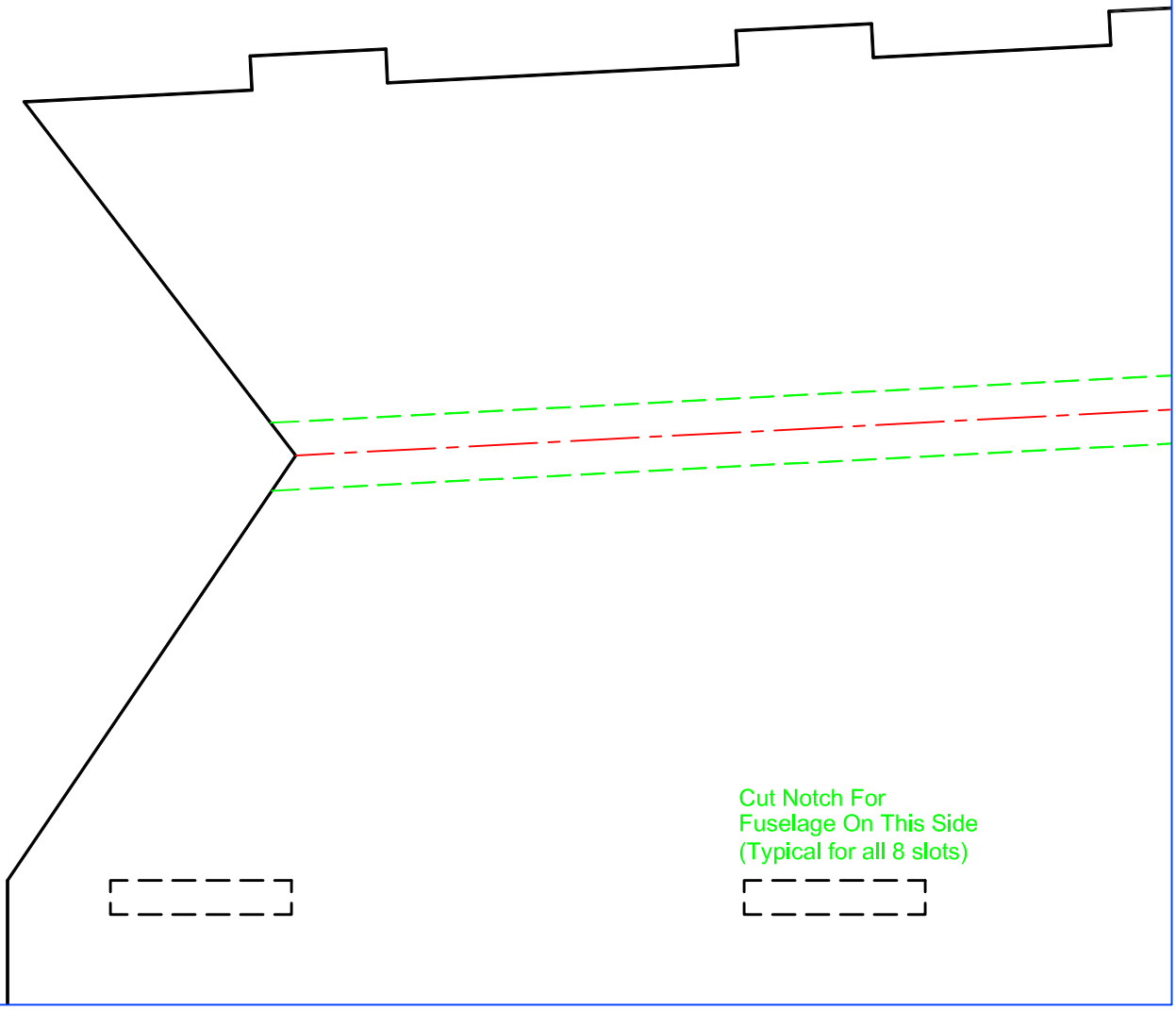
(Side View)



(Isometric View)

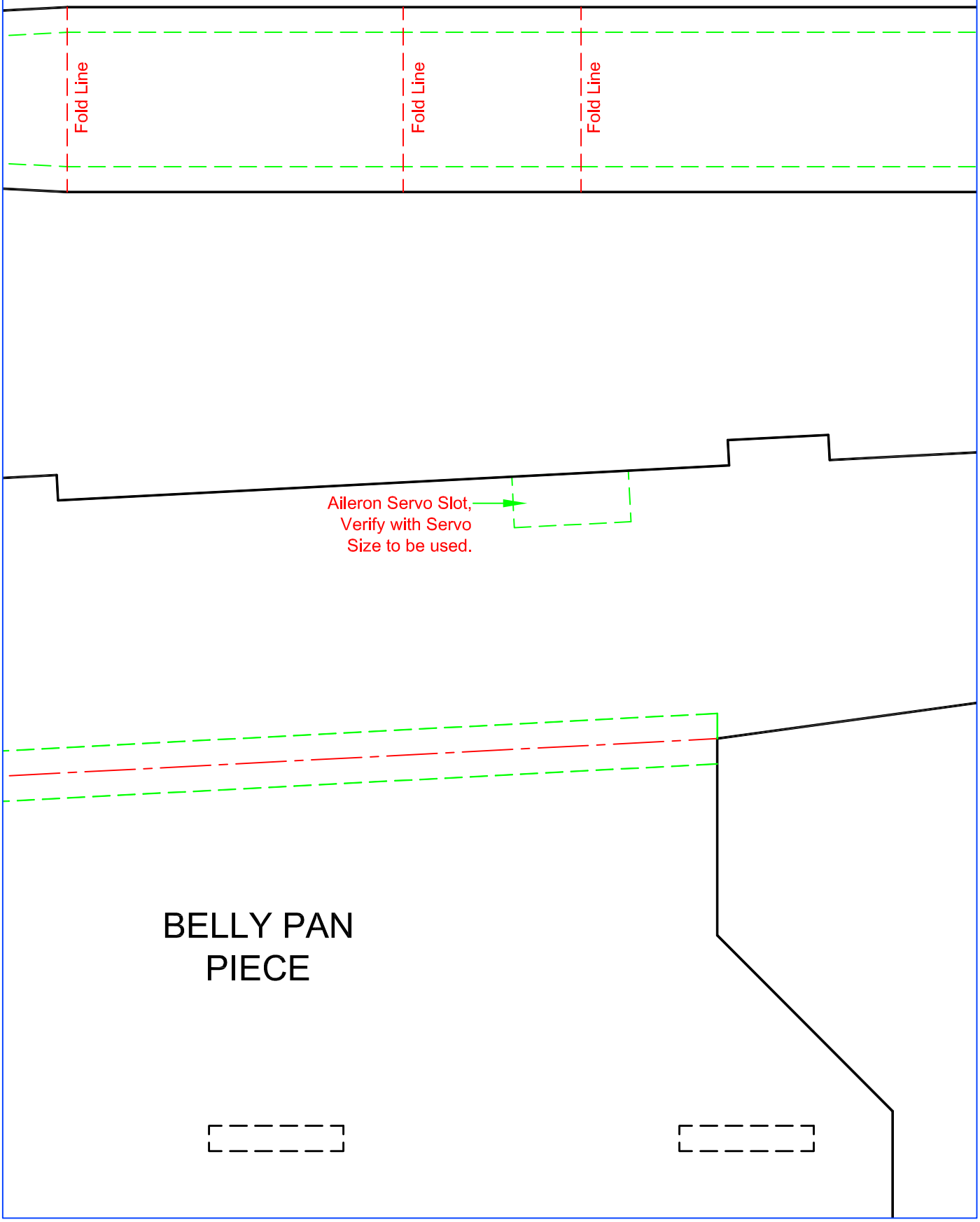


Bevel cut all the way around the fuselage and top piece.



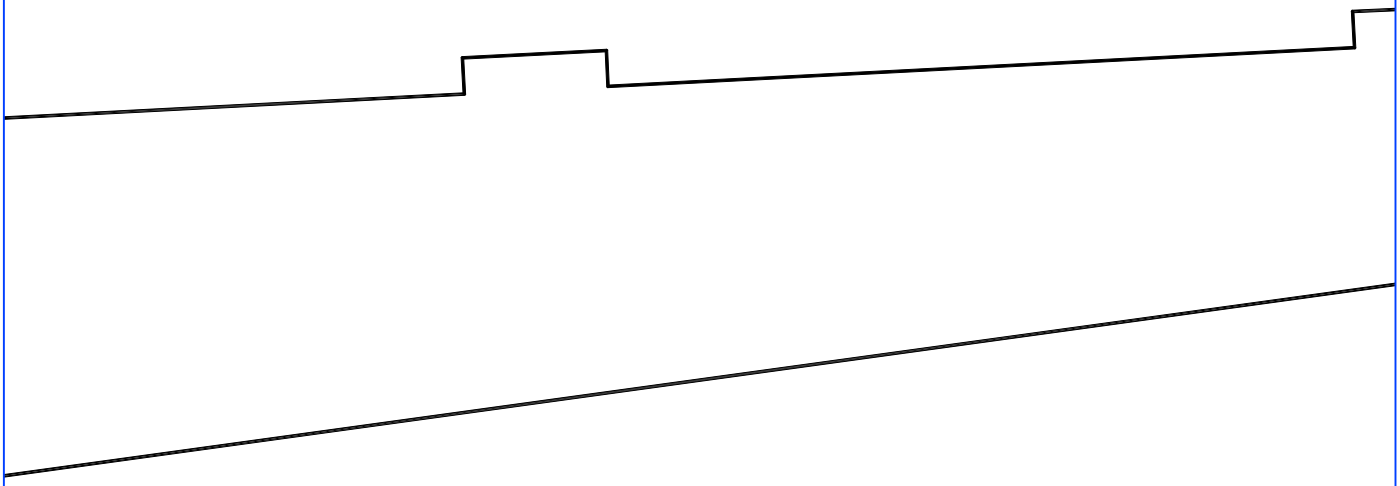
Cut Notch For
Fuselage On This Side
(Typical for all 8 slots)

P10


Fold Line
Fold Line
Fold Line
Aileron Servo Slot,
Verify with Servo
Size to be used.
BELLY PAN
PIECE

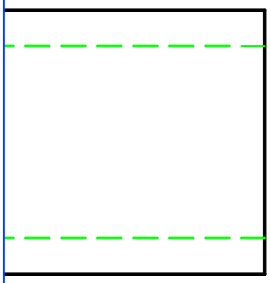
P11

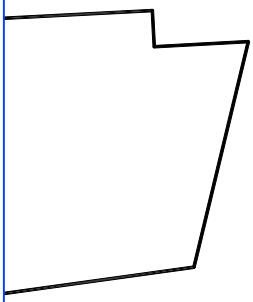
FUSELAGE
TOP PIECE

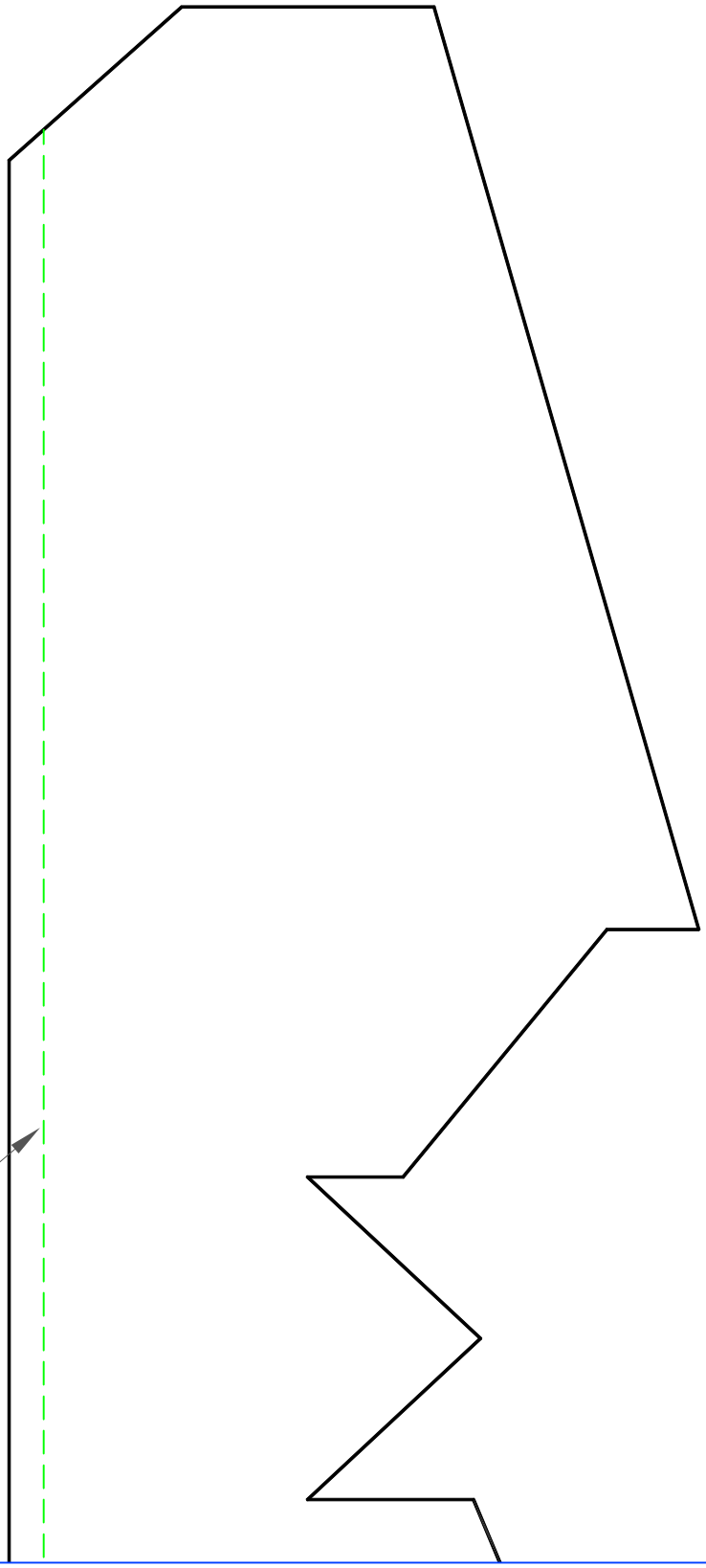


P12

This plan was created for rcFoamFighters
by Paul Petty July 2009

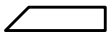




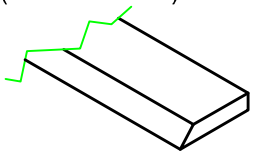


Example of 45° Bevel Cut.

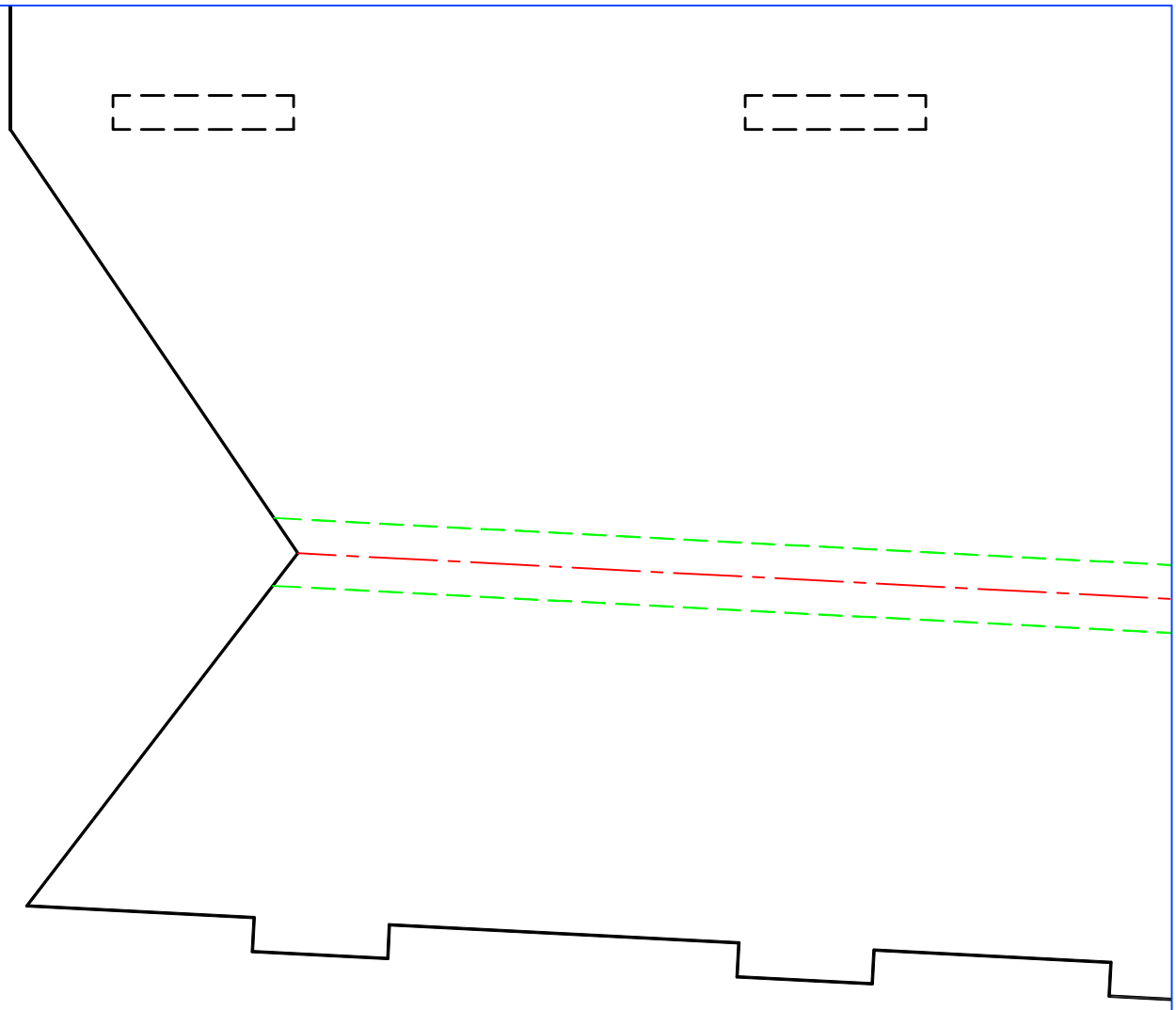
(Side View)



(Isometric View)



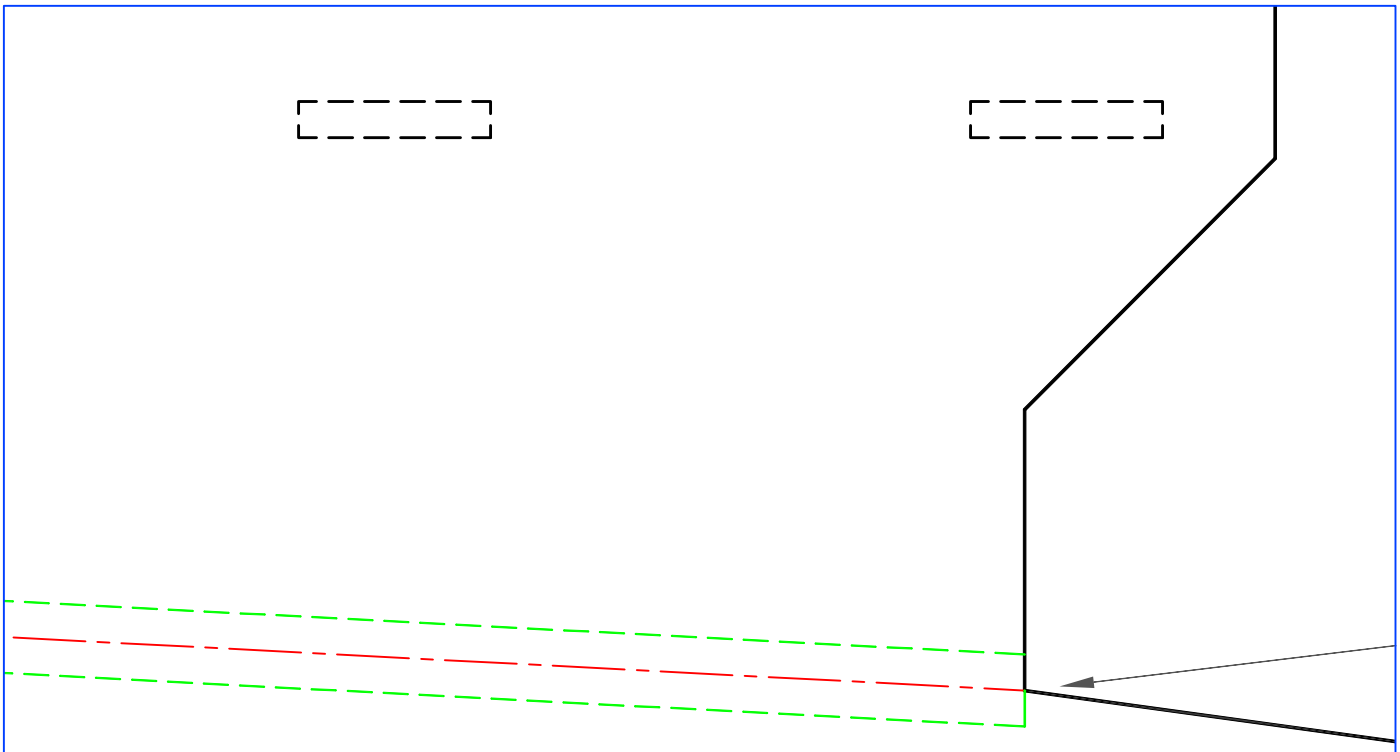
Bevel cut along the leading edge of Elevator piece.

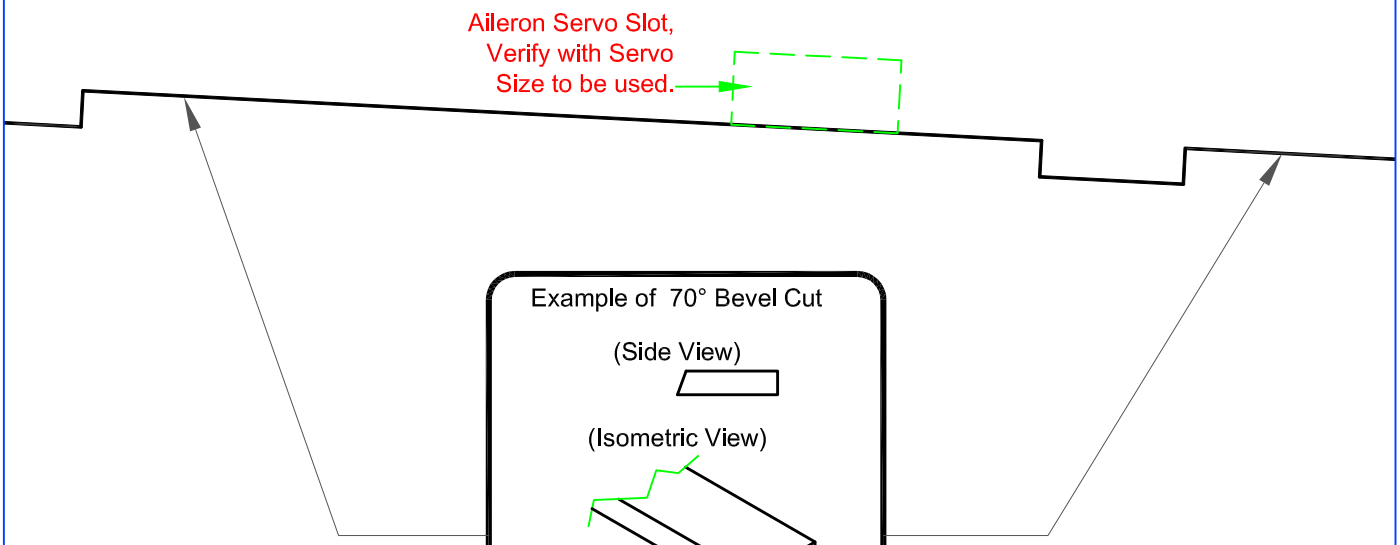


rcFoamFighters

FF-22 (FoamFighter 22)

(Design by Paul Petty - July 2009 - rev 1.2)

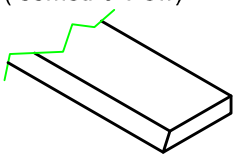




Example of 70° Bevel Cut

(Side View)

(Isometric View)

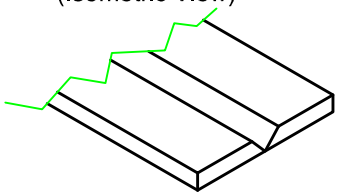


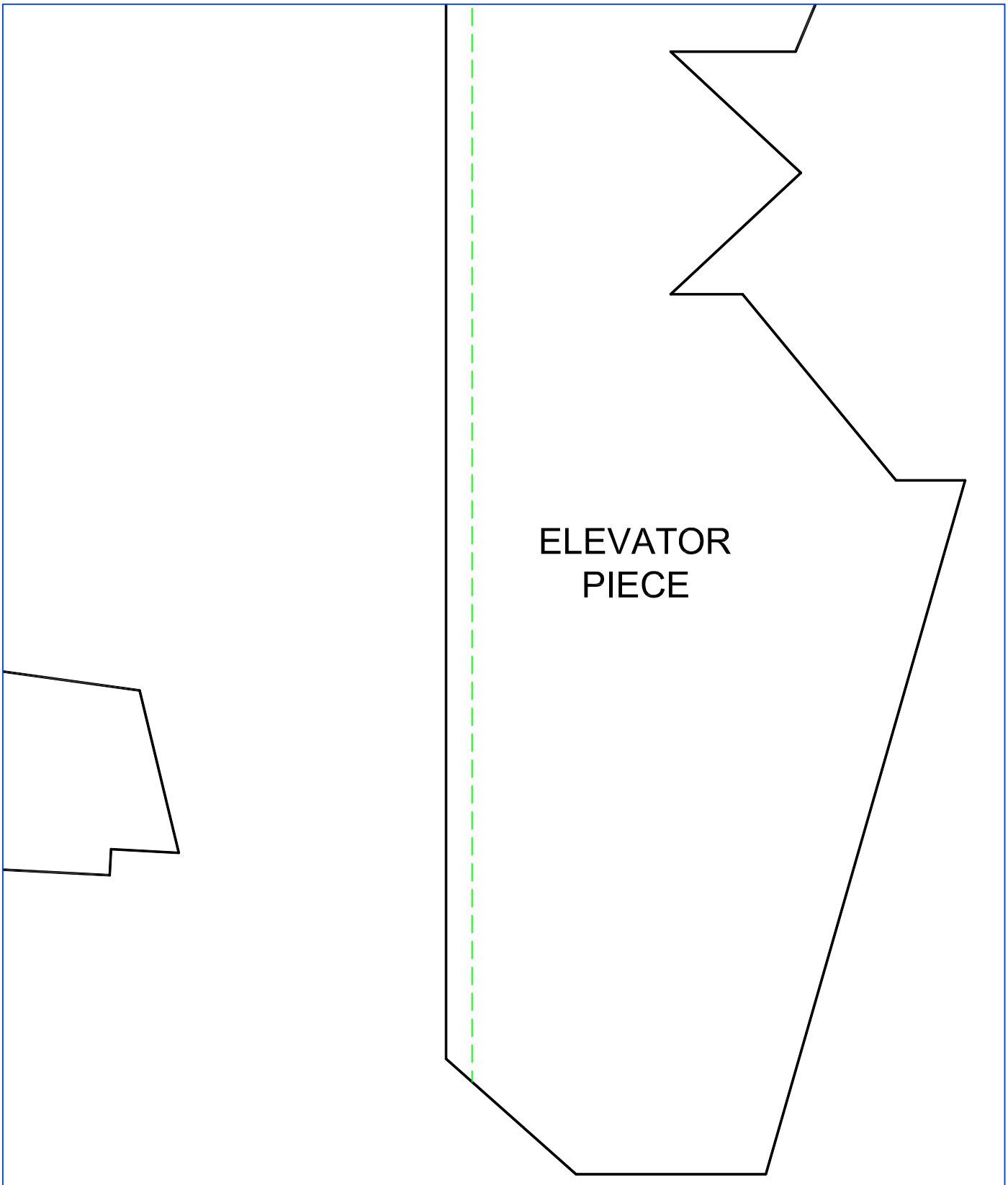
Create a shallow Bevel Cut (approx. 70°) along edge of the belly plate, this will allow main piece to sit flush up against the main wing. (Typical along edge line)

Example of Double 45° Bevel Cut.

(Side View)

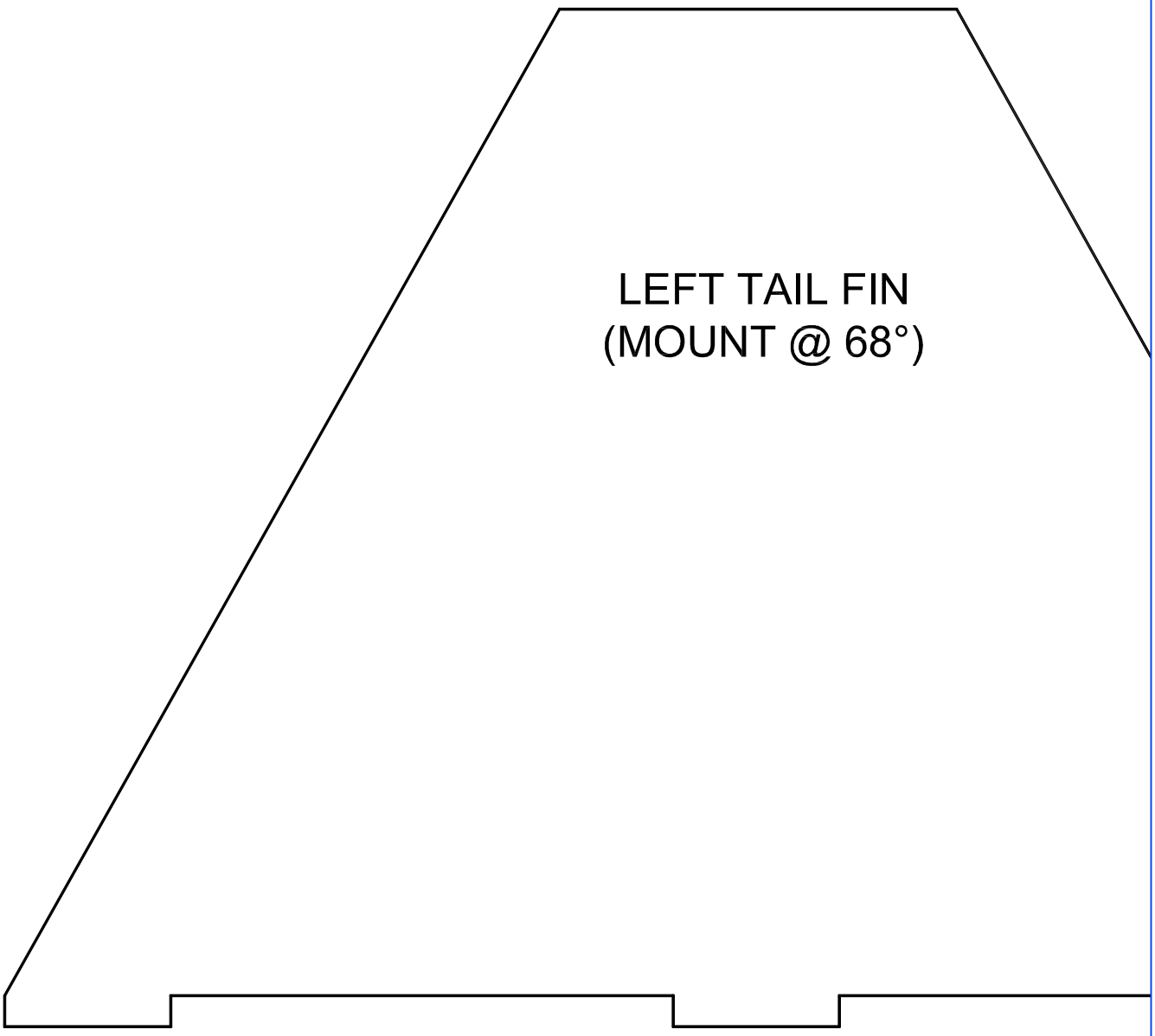
(Isometric View)



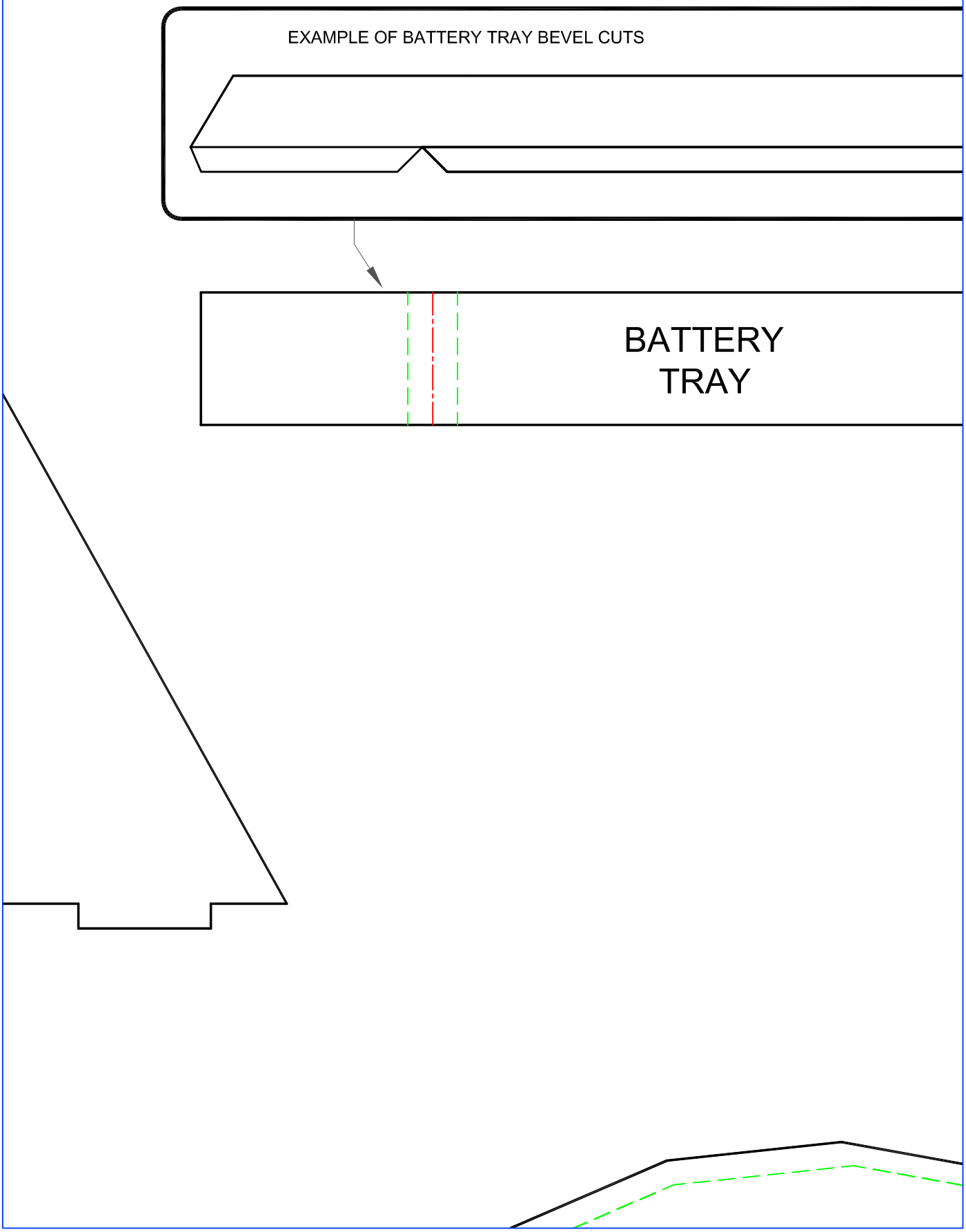


This plan was created for rcFoamFighters
by Paul Petty July 2009

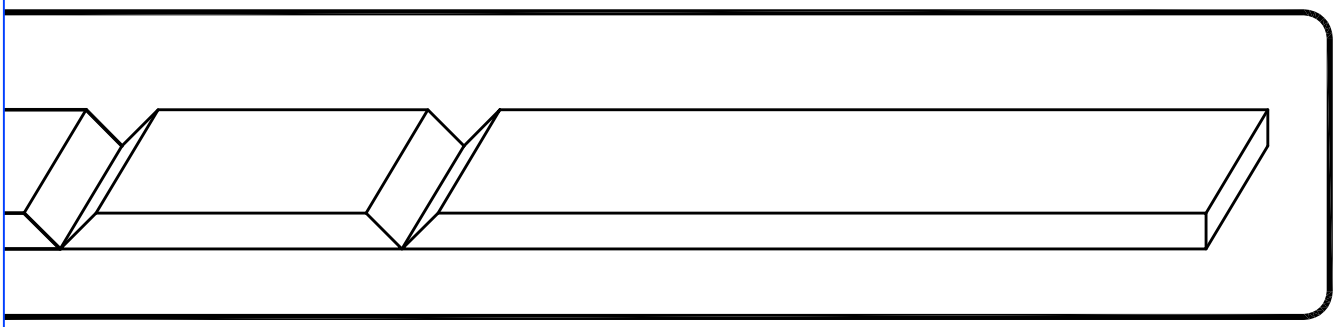
P17 (Plan release 1.2 - Copyright rcFoamFighters)
This plan was created for rcFoamFighters
by Paul Petty July 2009

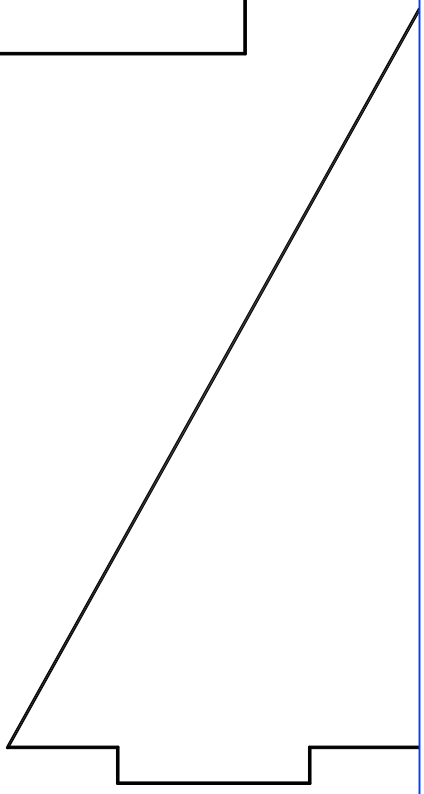


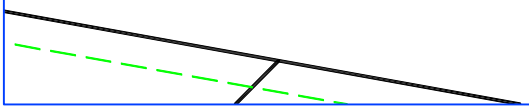
P18



P19

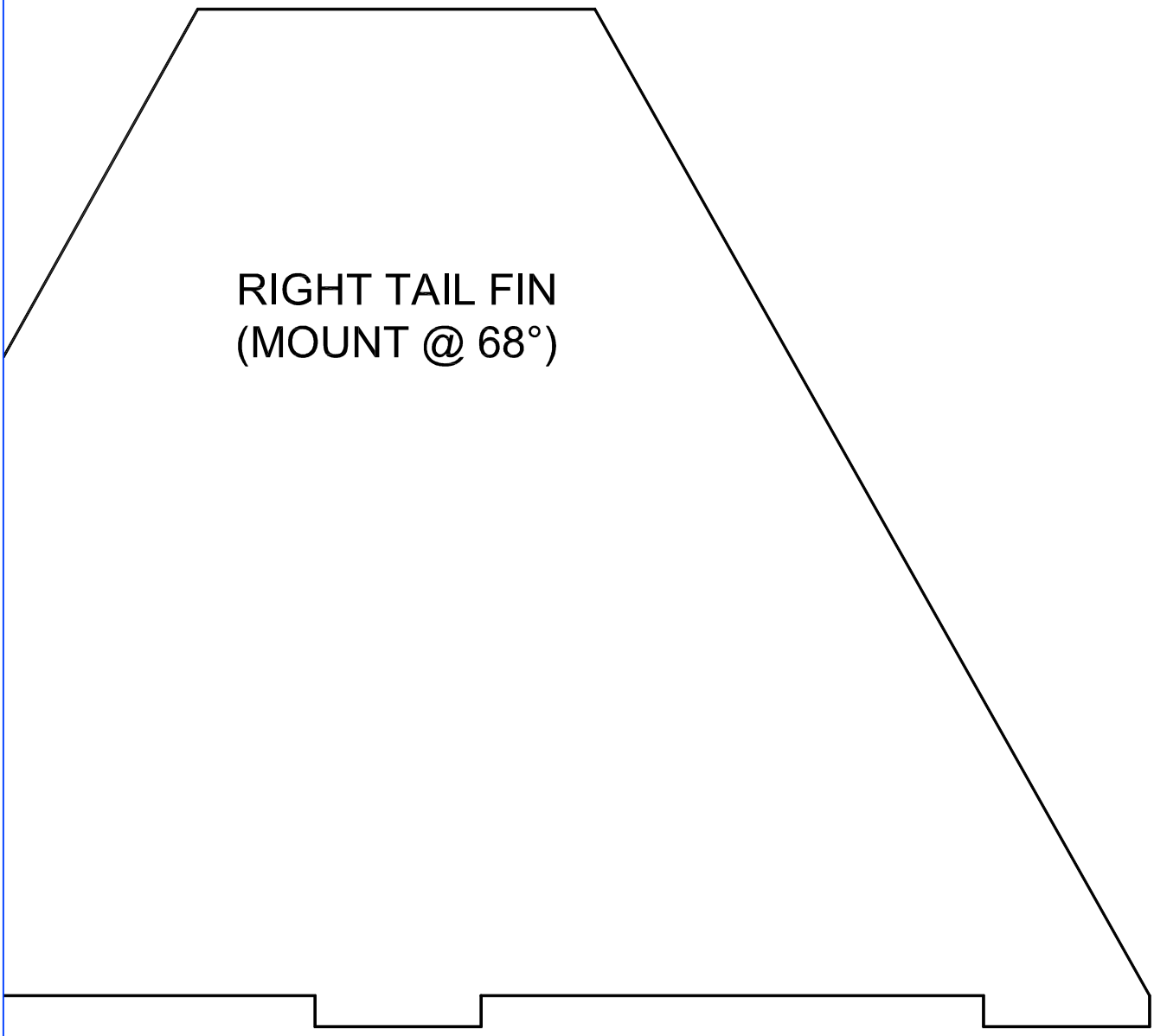


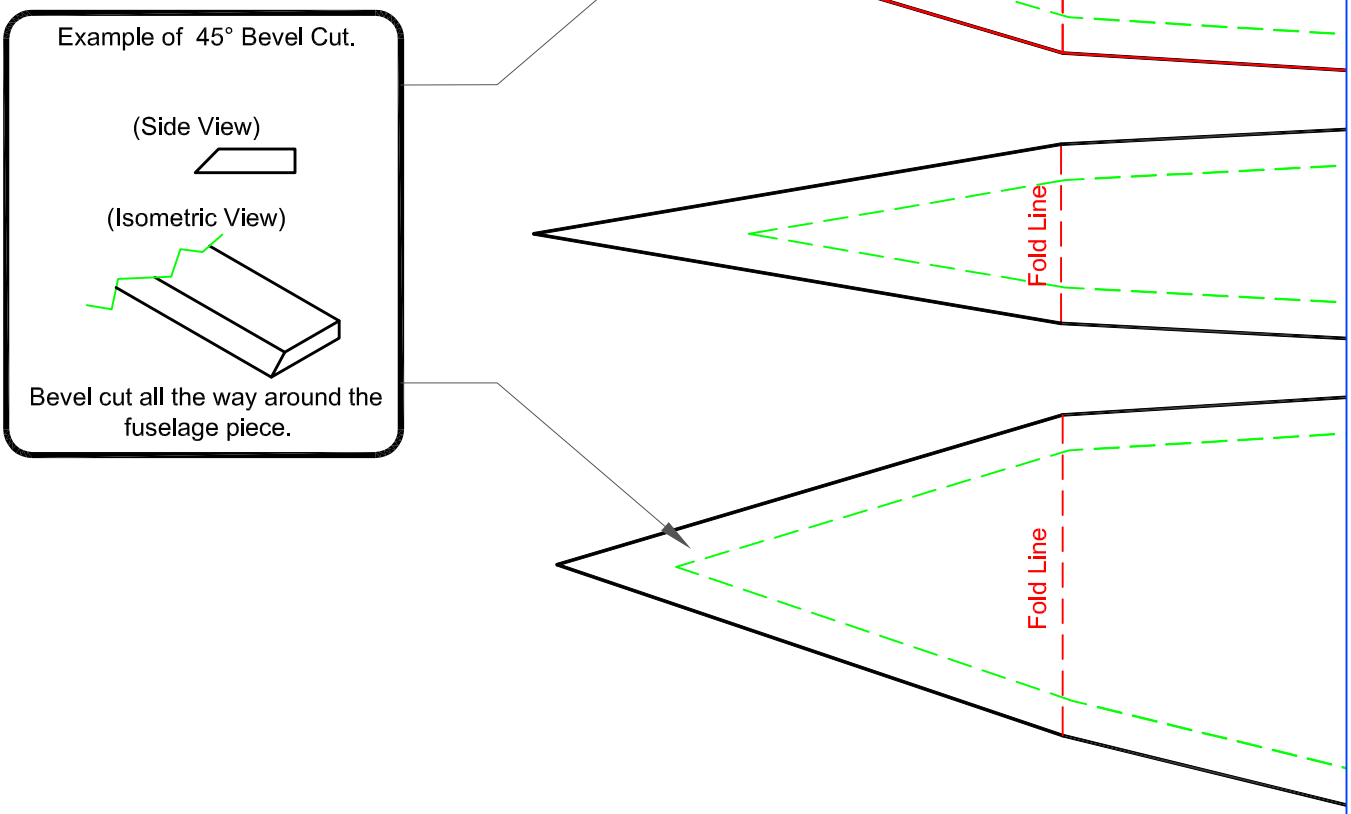




P20

This plan was created for rcFoamFighters
by Paul Petty July 2009



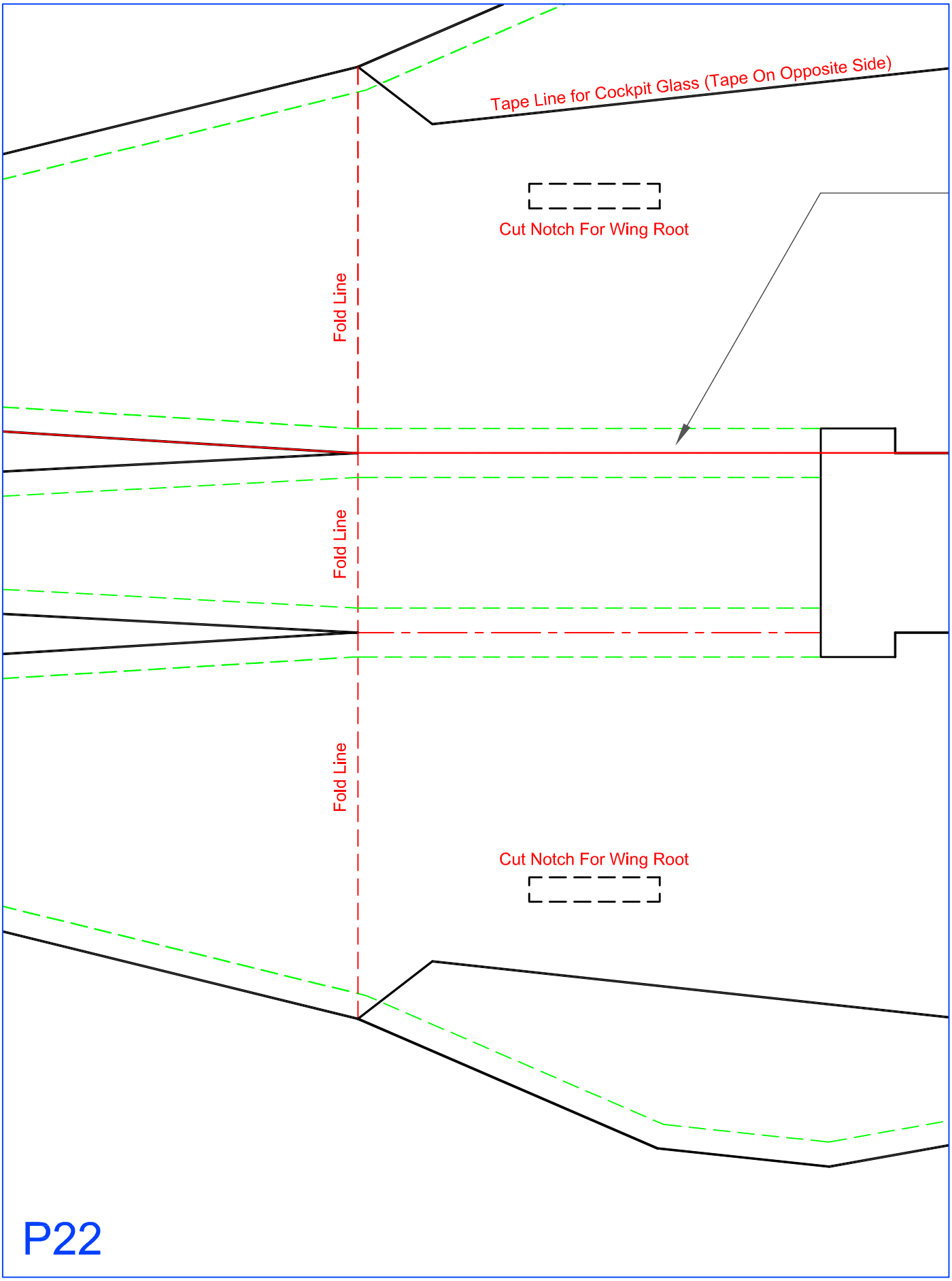


rcFoamFighters

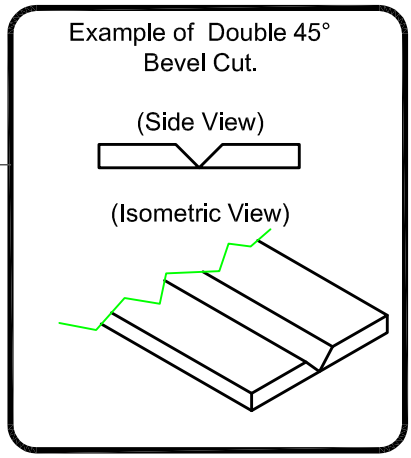
FF-22 (FoamFighter 22)

(Design by Paul Petty - July 2009 - rev 1.2)

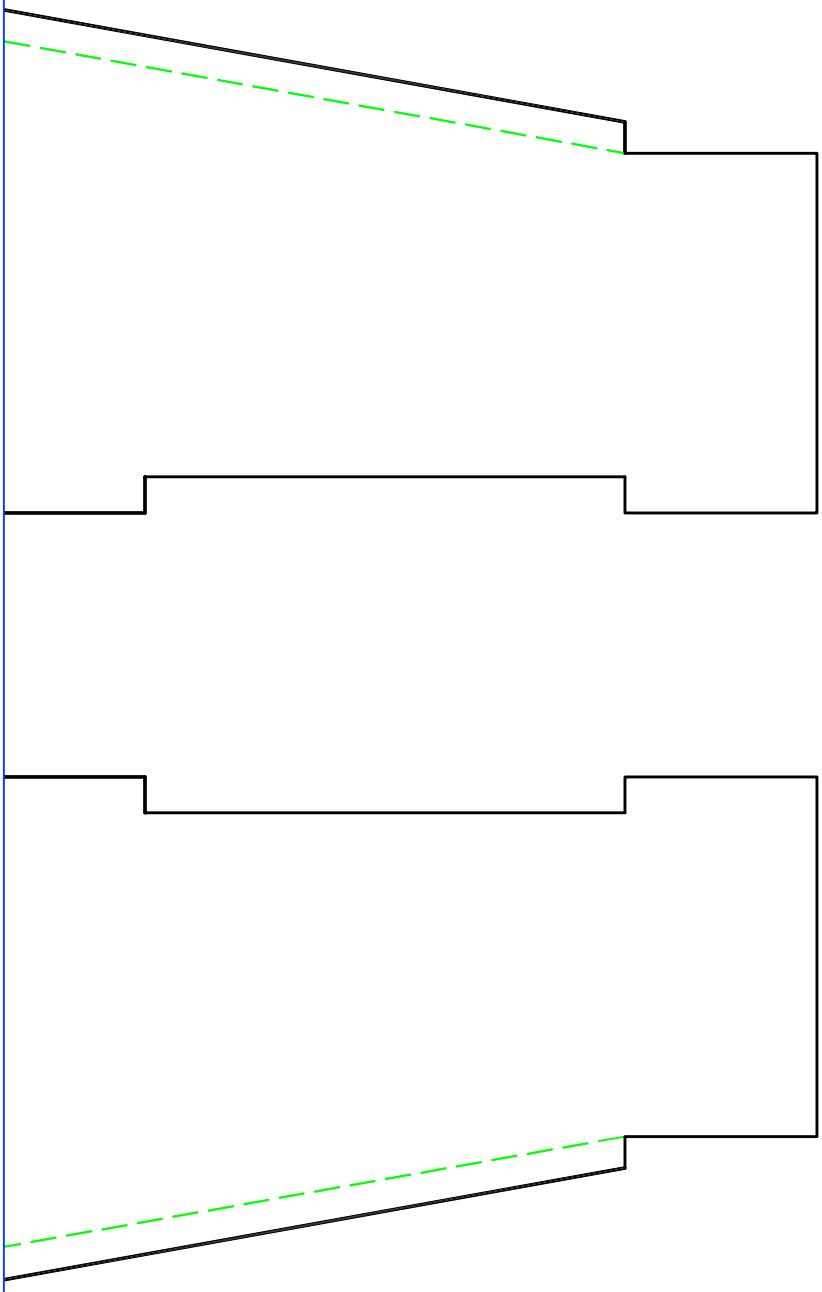
This plan was created for rcFoamFighters
by Paul Petty July 2009


Tape Line for Cockpit Glass (Tape On Opposite Side)
Cut Notch For Wing Root
Fold Line
Fold Line
Fold Line
Cut Notch For Wing Root

P22



FUSELAGE
MAIN PIECE



This plan was created for rcFoamFighters
by Paul Petty July 2009

P24