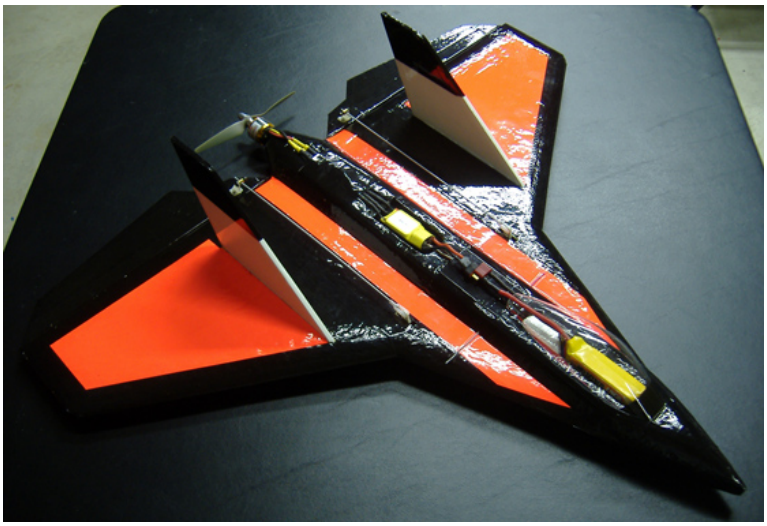
FOAM, GLUE, TAPE AND A LITTLE IMAGINATION....



(RC Model Airplane Construction Plans)

rcFoamFighters

SkyFighter V2 (Basic Template)

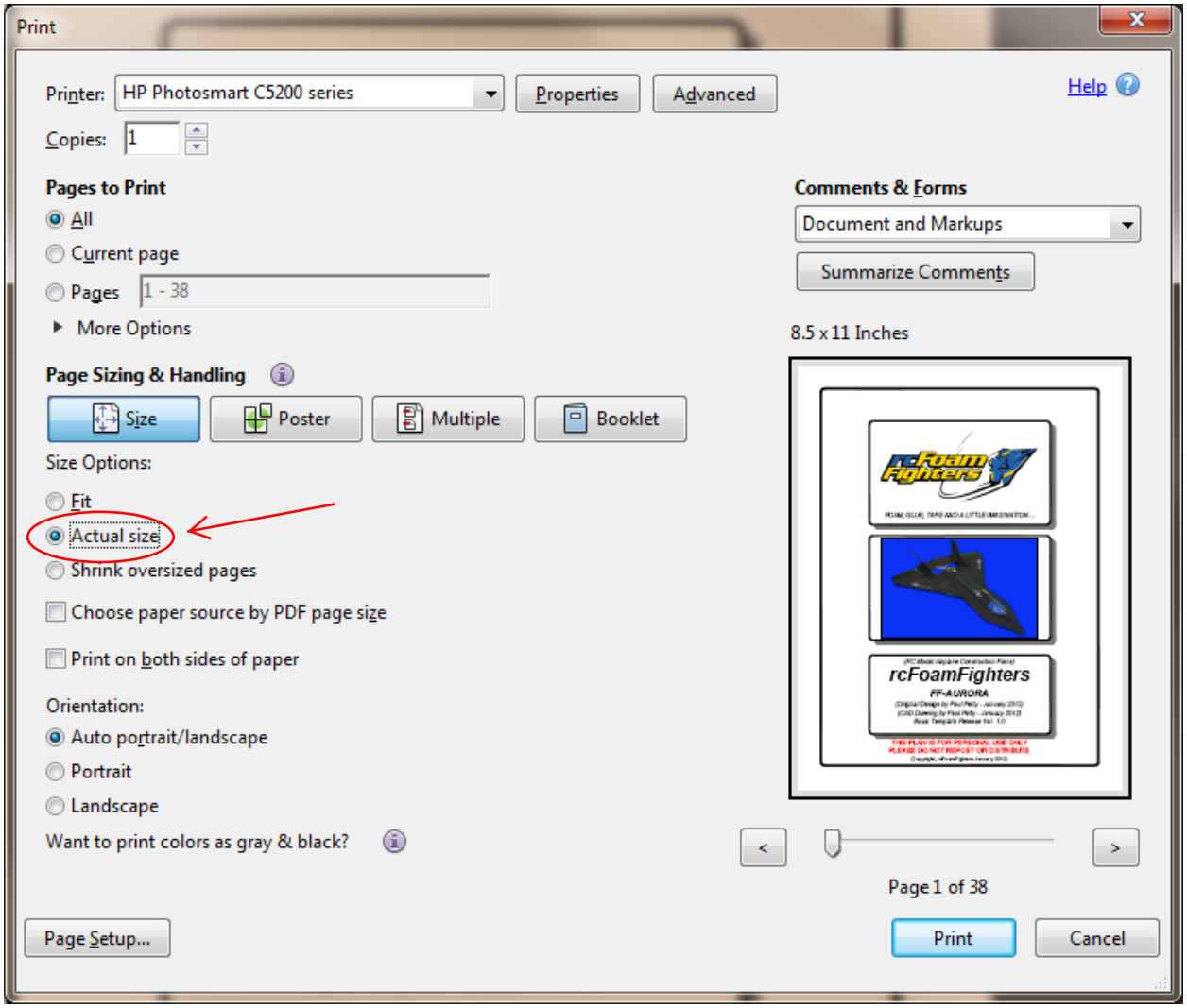
(Plane Design by Frank Petty - July. 2009 - Rev 1.0)

(CAD Drawing by Paul Petty - July 2009)

(Contact rcFoamFighters at: admin@rcfoamfighters.com)

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

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(Plane Design by Frank Petty - July. 2009 - Rev 1.0)
(CAD Drawing by Paul Petty - July 2009)

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Recommend Parts:

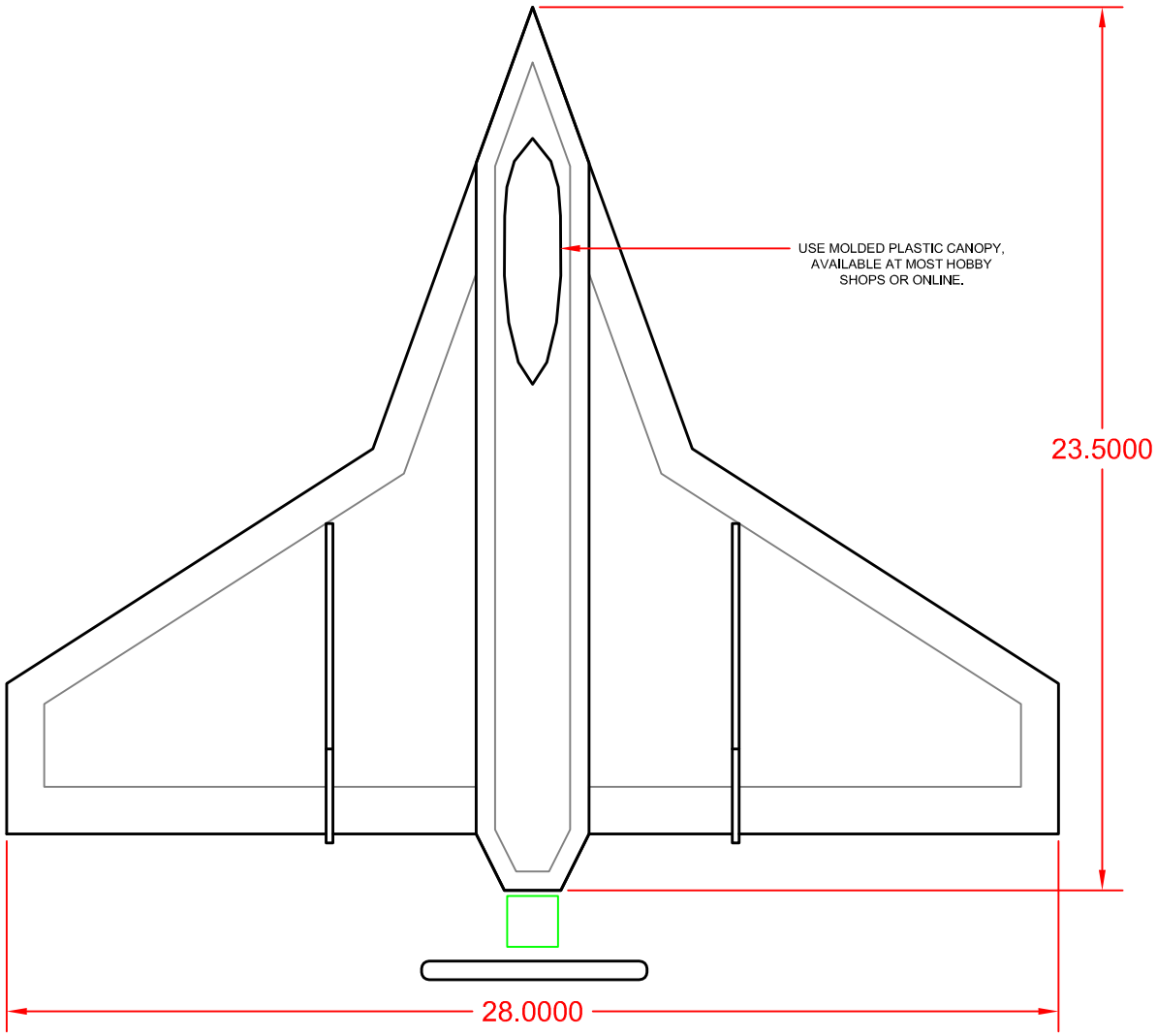
BASIC SETUP (80+mph)

Motor: Suppo A2212/6 2200kV Brushless Motor
ESC: Suppo 30A Brushless ESC
Prop: APC 6x4
Battery: 2200mA (25C or better recommended)
Servos: 2 Each MG-82 Metal Gear (HITEK)
Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

Plane was originally designed to be made from 1ea. 36x24 EPP sheet.

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 AND SAFETY 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.



BASIC TEMPLATE ASSEMBLY KEY PLAN

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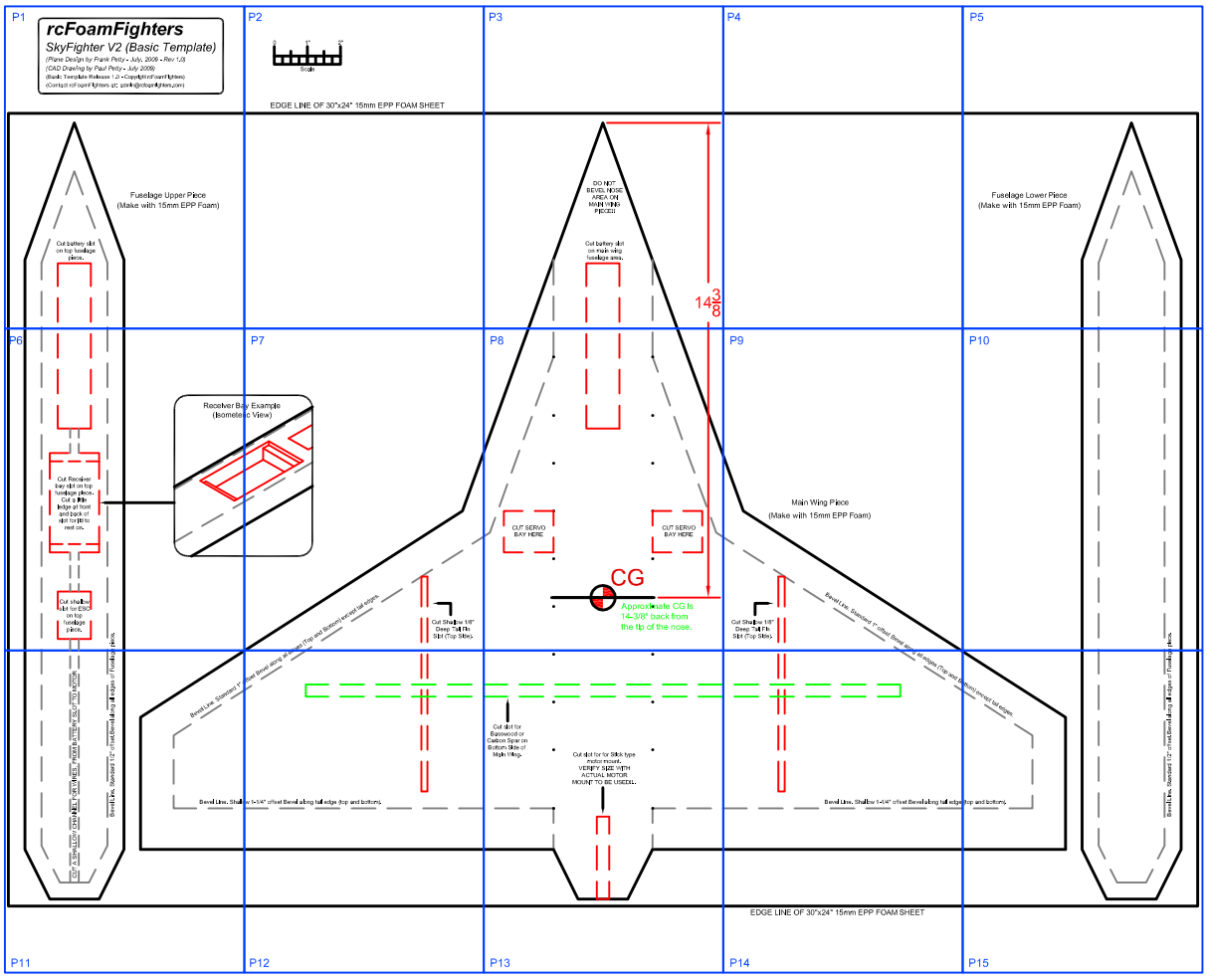
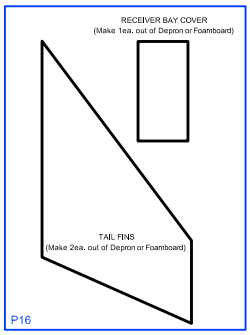
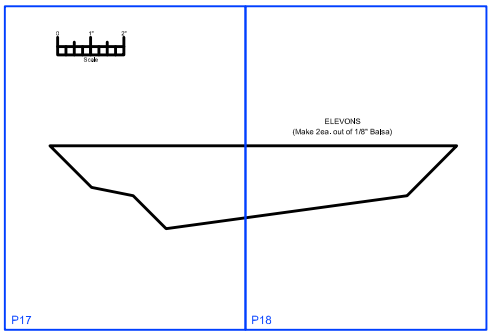
SkyFighter V2 (Basic Template)

(Plane Design by Frank Petty - July. 2009 - Rev 1.0)
(CAD Drawing by Paul Petty - July 2009)
(Basic Template Release 1.0 - Copyright rcFoamFighters)
(Contact rcFoamFighters at: admin@rcfoamfighters.com)

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







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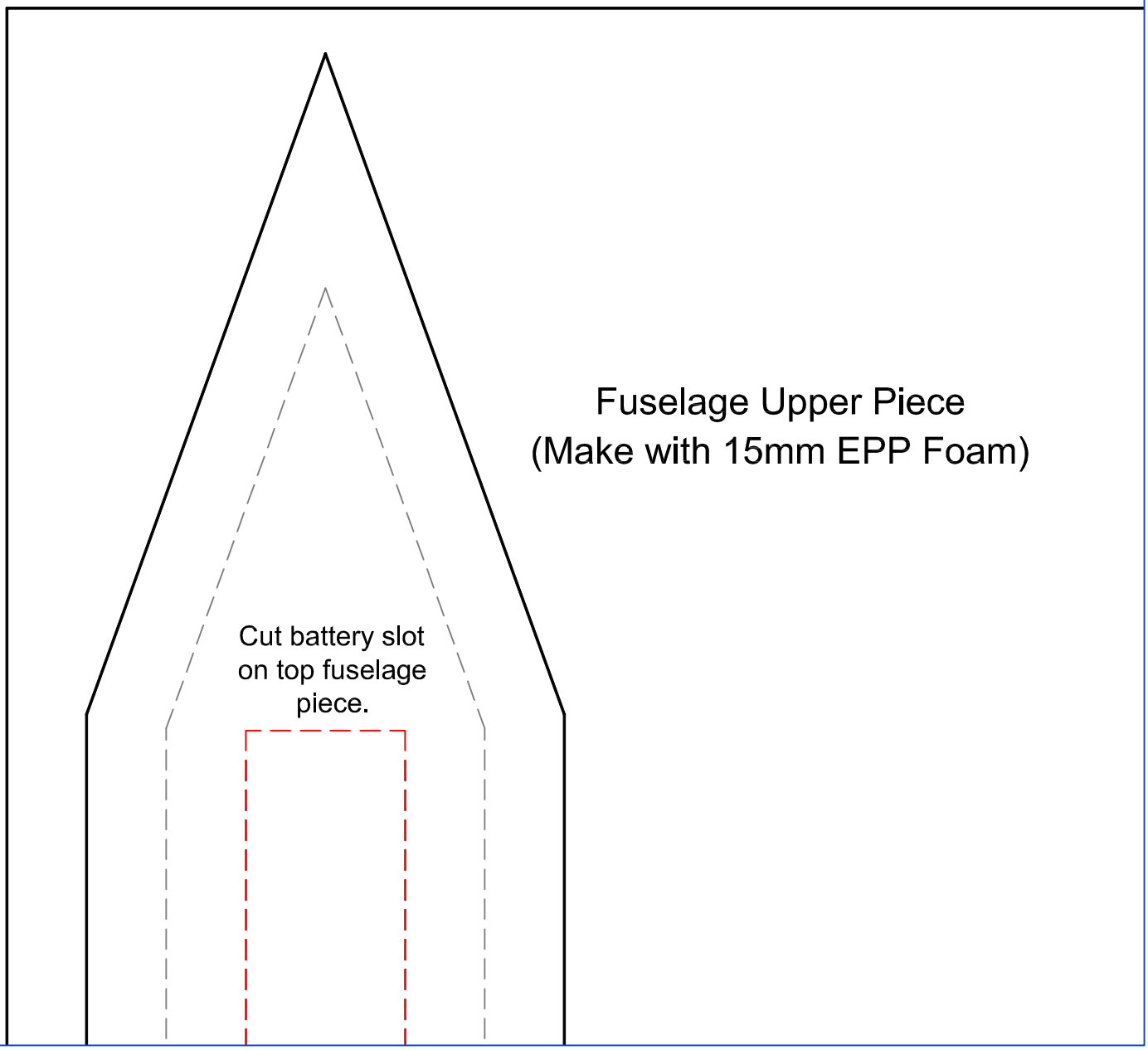
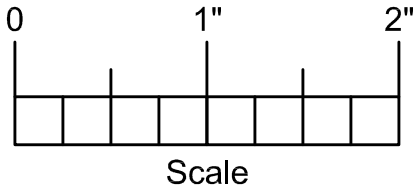


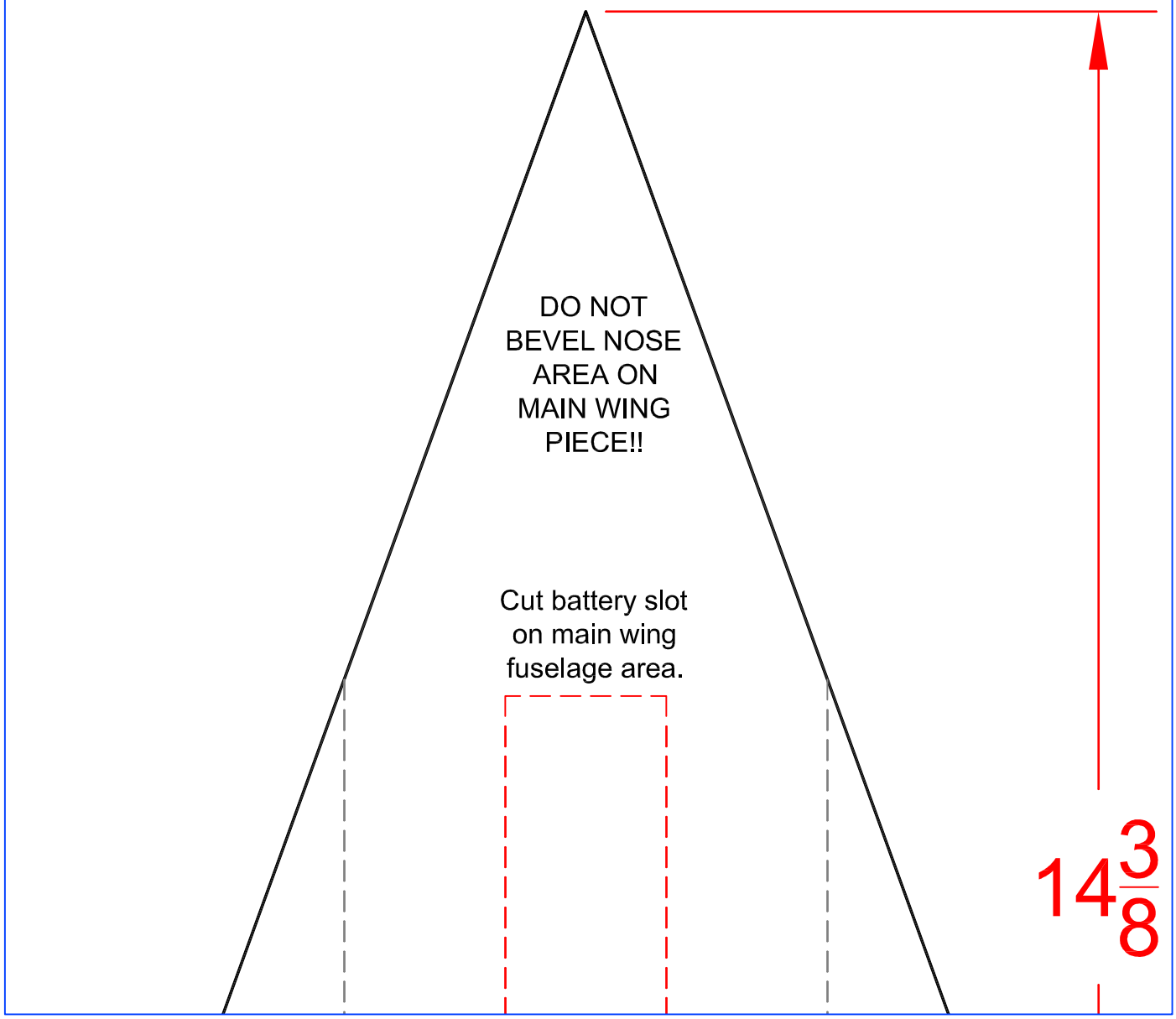
Fuselage Upper Piece
(Make with 15mm EPP Foam)

P2



EDGE LINE OF 30"x24" 15mm EPP FOAM SHEET

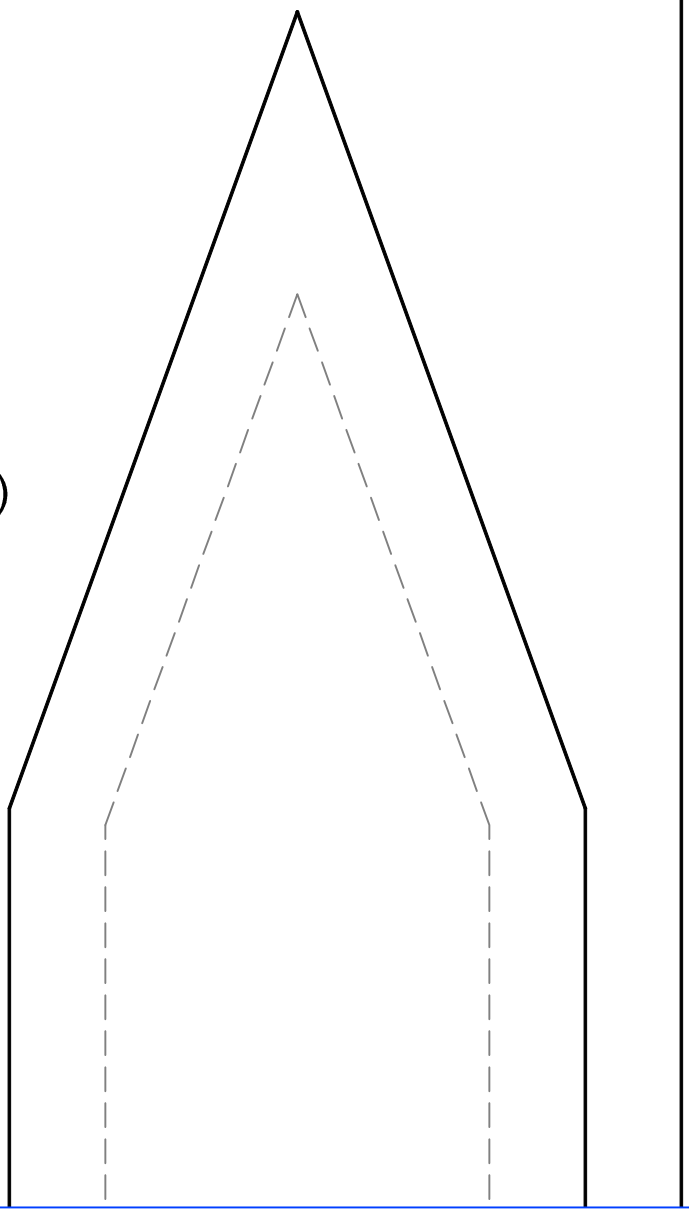
P3


DO NOT
BEVEL NOSE
AREA ON
MAIN WING
PIECE!!
Cut battery slot
on main wing
fuselage area.
14 3/8

P4

P5

Fuselage Lower Piece
(Make with 15mm EPP Foam)

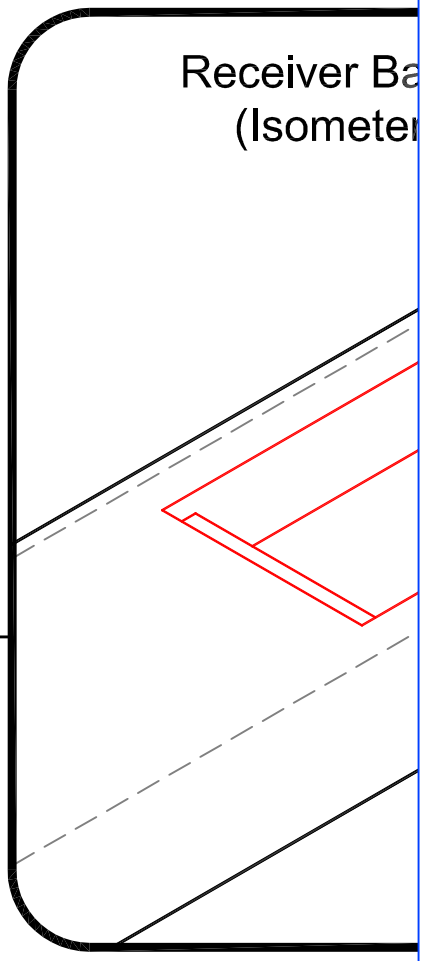


P6

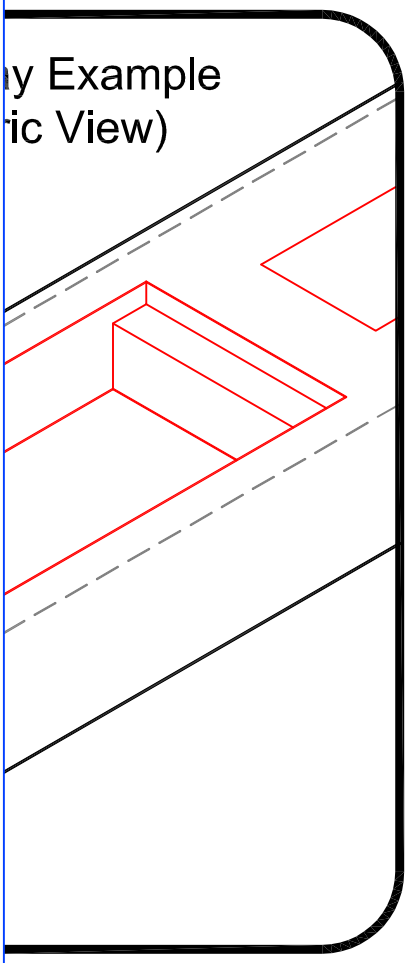
Cut Receiver bay slot on top fuselage piece. Cut a little ledge at front and back of slot for lid to rest on.

Cut shallow slot for ESC on top fuselage piece.

e piece.

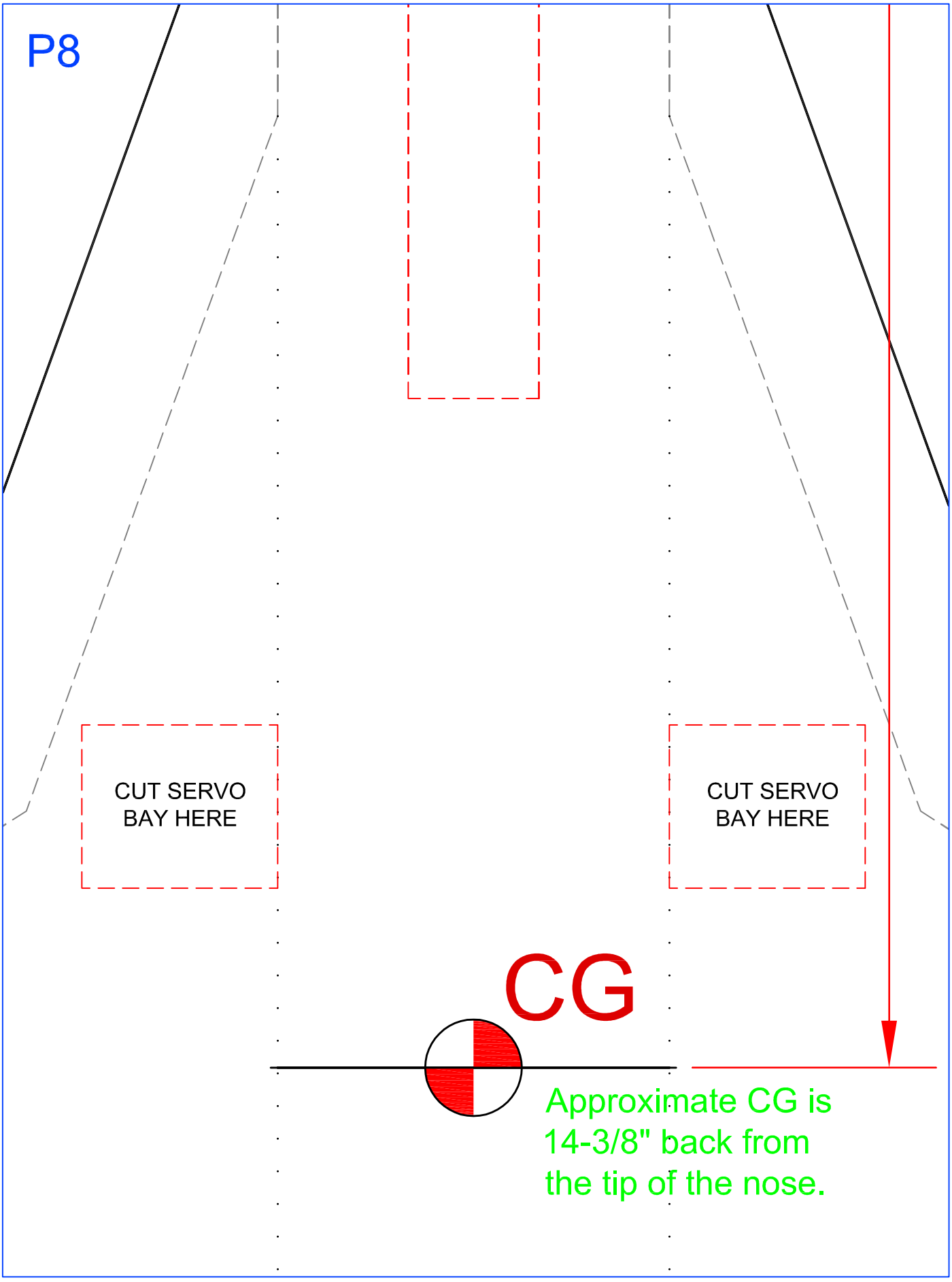


P7

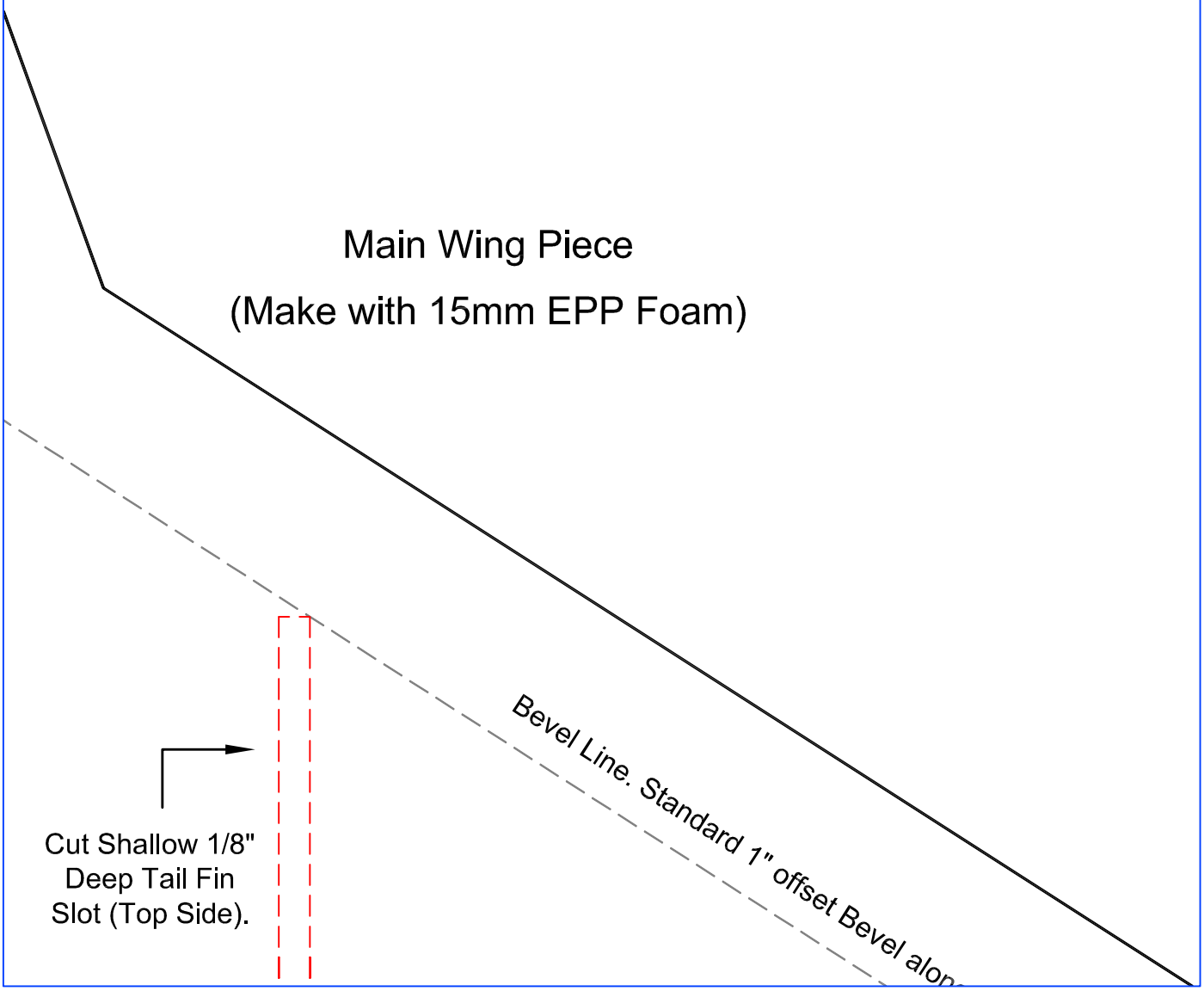


dges (Top and Bottom) except tail edges.

Cut Shallow 1/8"
Deep Tail Fin
Slot (Top Side).

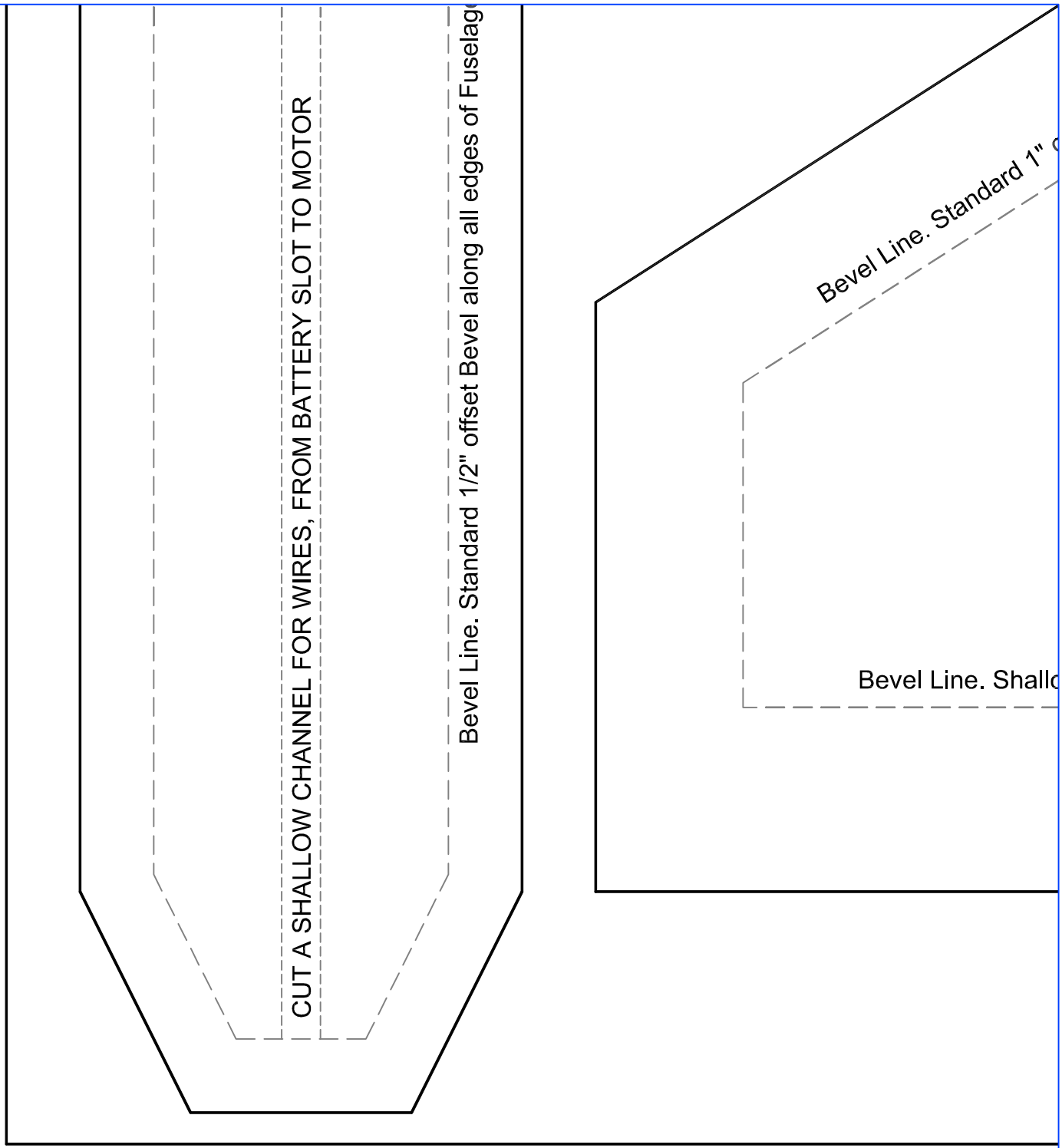

P8
CUT SERVO BAY HERE
CUT SERVO BAY HERE
CG
Approximate CG is 14-3/8" back from the tip of the nose.

P9

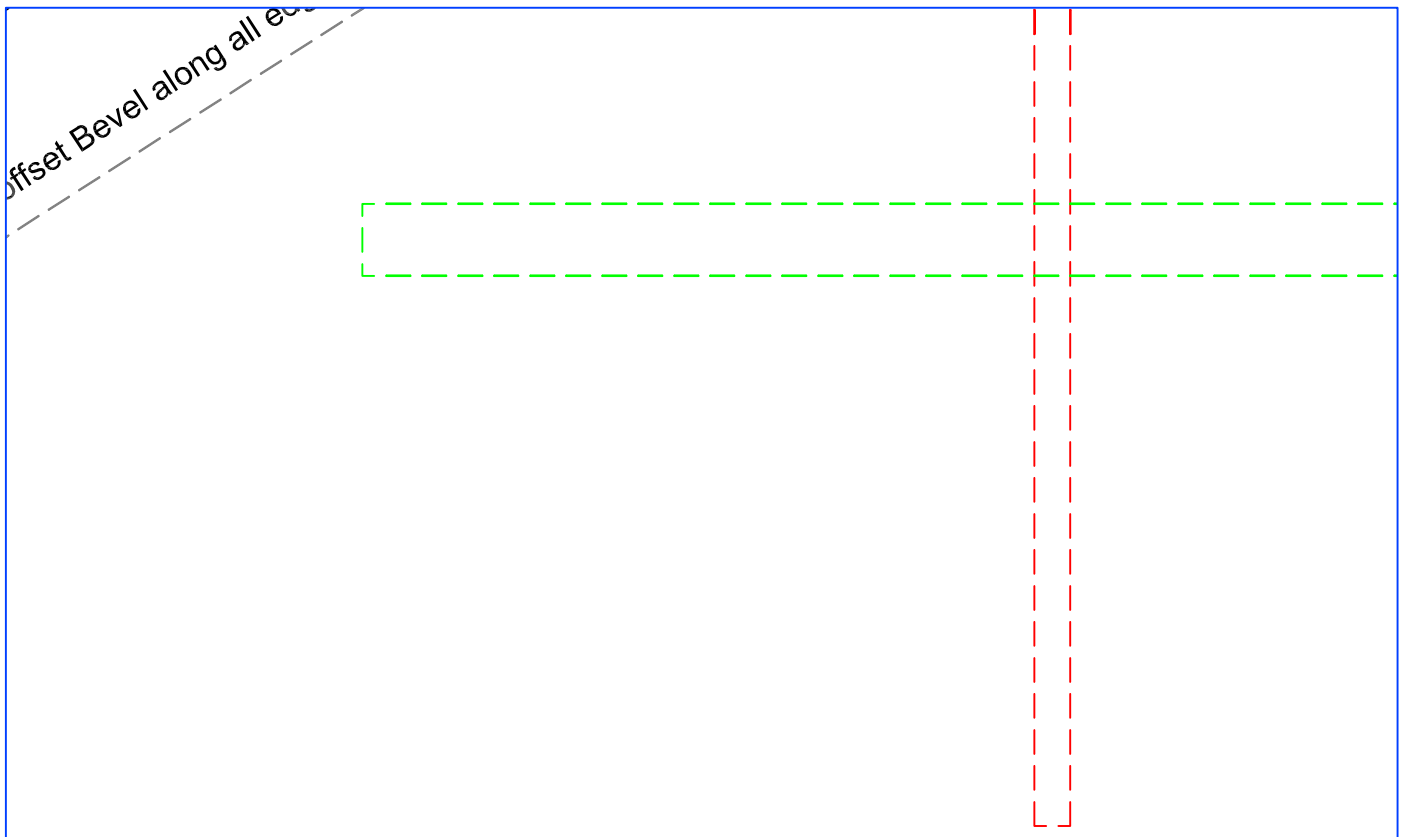

Main Wing Piece
(Make with 15mm EPP Foam)
Bevel Line. Standard 1" offset Bevel alon
Cut Shallow 1/8"
Deep Tail Fin
Slot (Top Side).

P10

e piece.

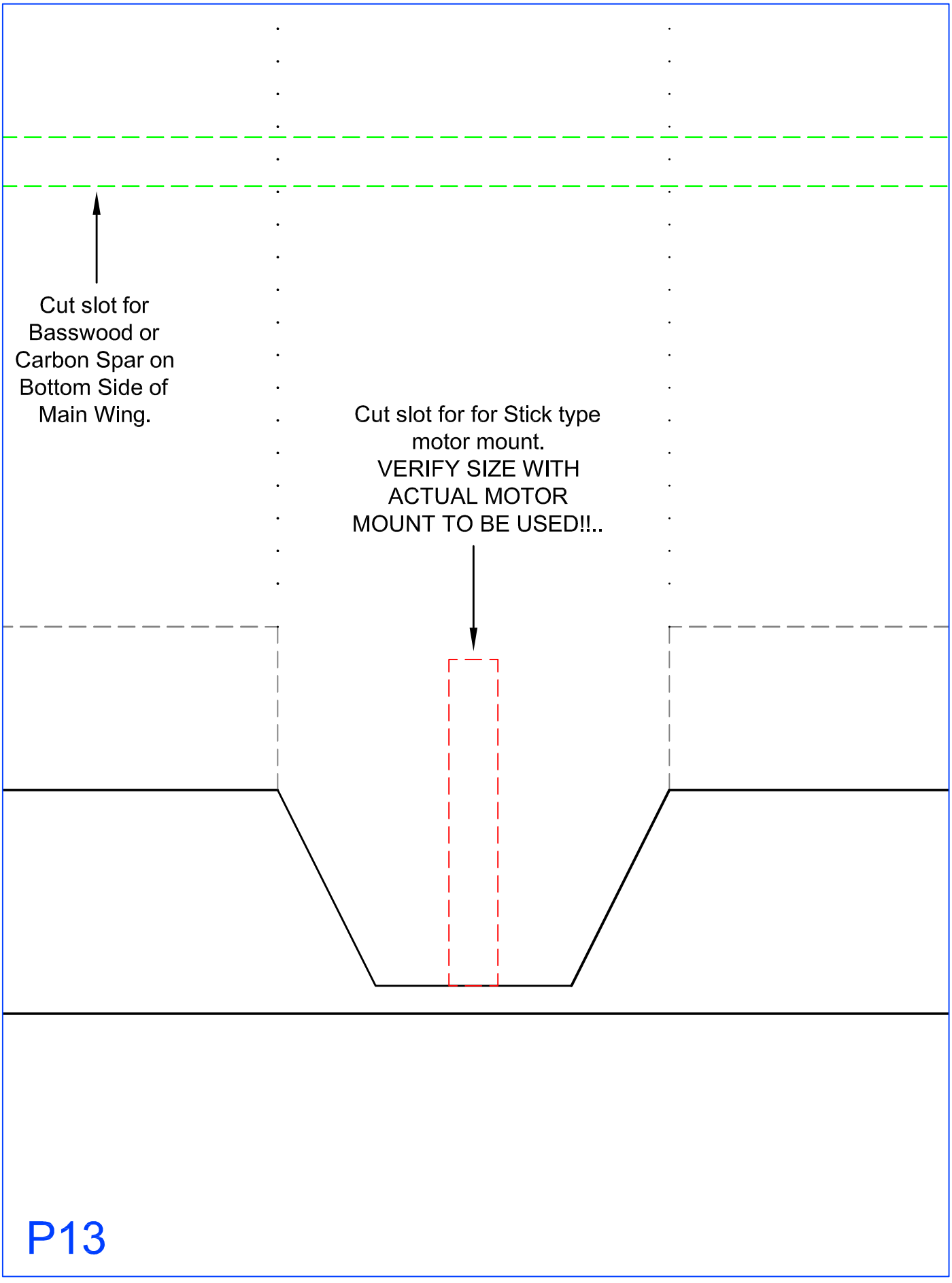

CUT A SHALLOW CHANNEL FOR WIRES, FROM BATTERY SLOT TO MOTOR
Bevel Line. Standard 1/2" offset Bevel along all edges of Fuselag
Bevel Line. Standard 1"
Bevel Line. Shallo

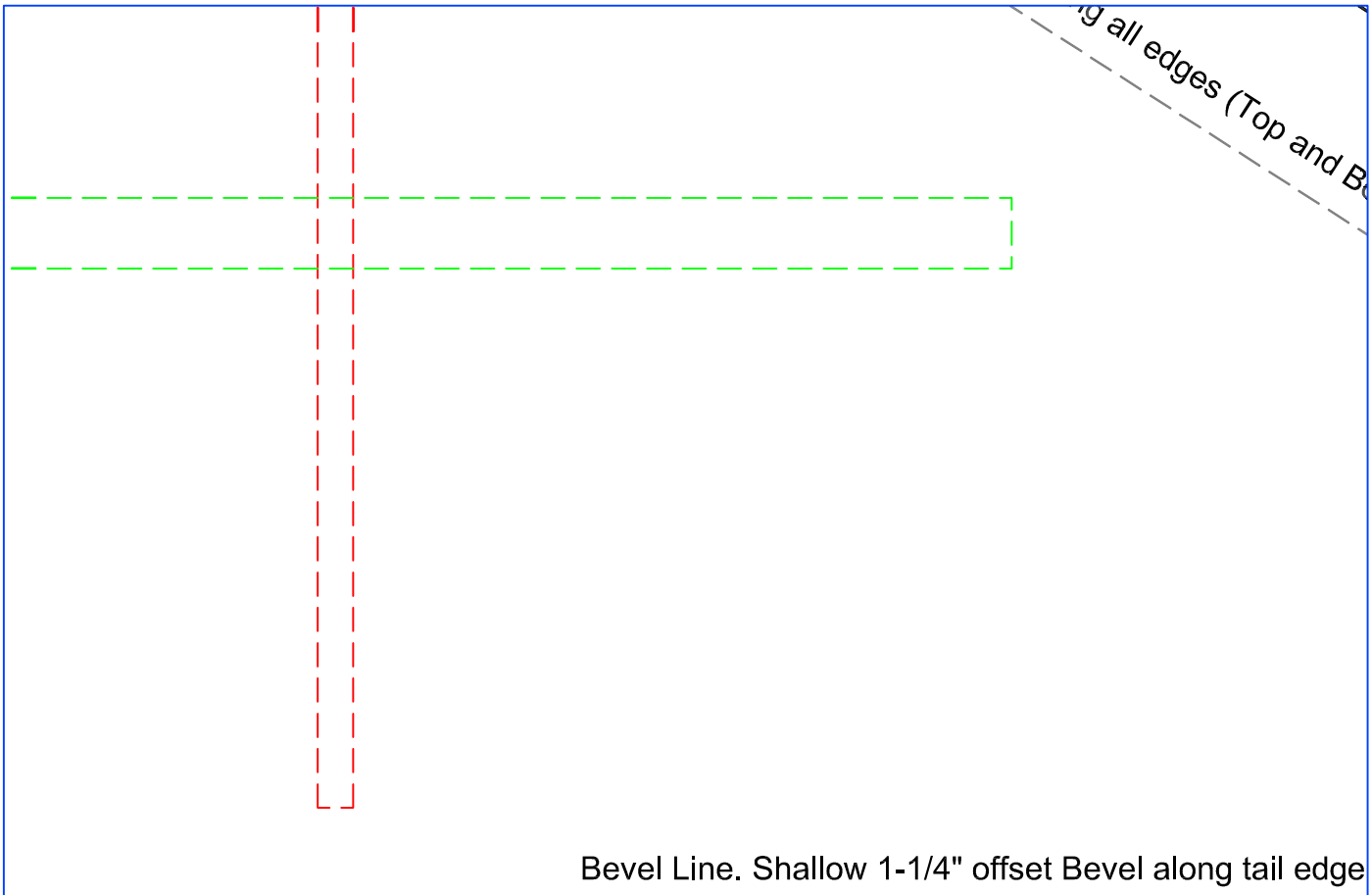
P11



ow 1-1/4" offset Bevel along tail edge (top and bottom).

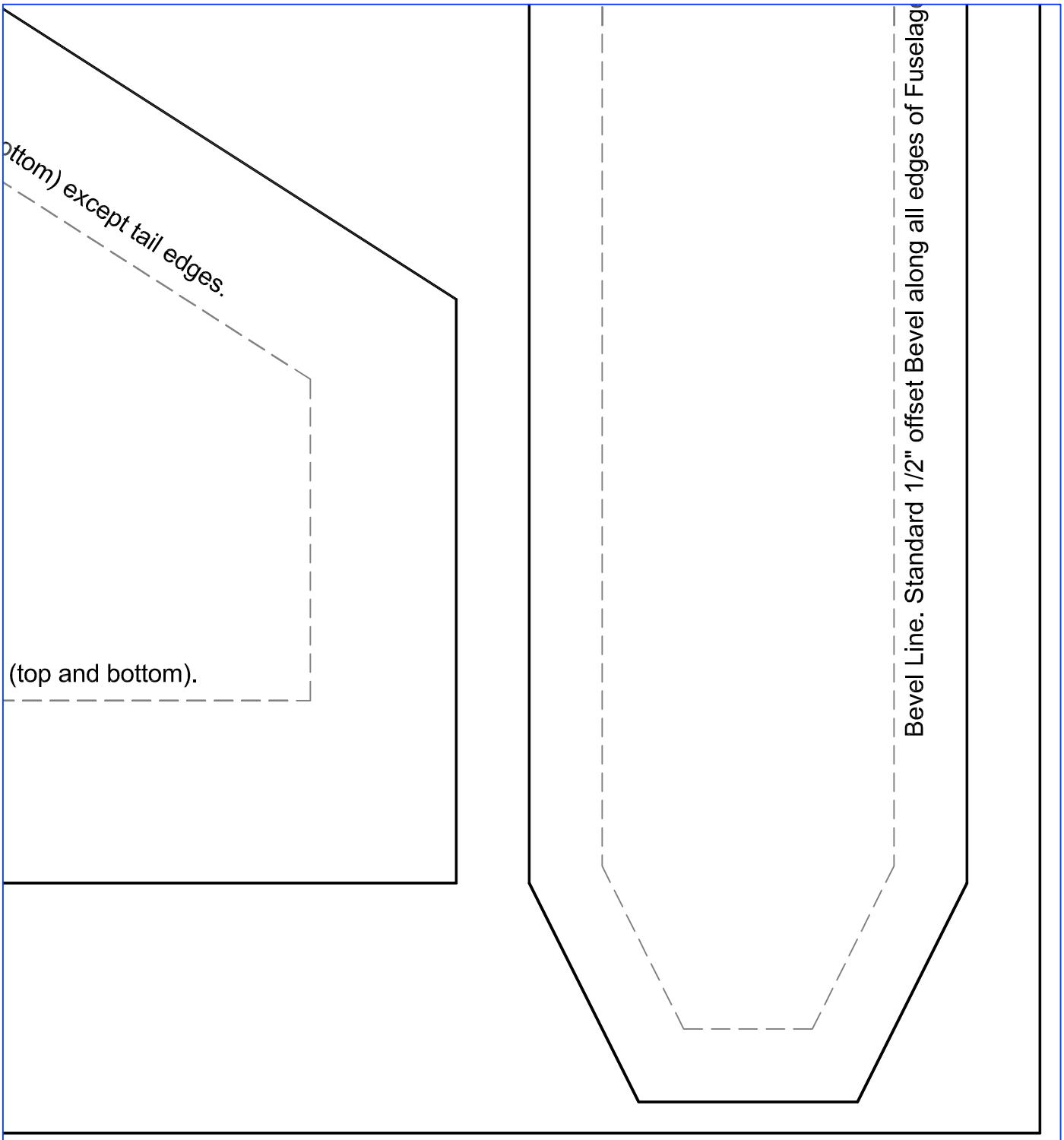
P12


Cut slot for
Basswood or
Carbon Spar on
Bottom Side of
Main Wing.
Cut slot for for Stick type
motor mount.
VERIFY SIZE WITH
ACTUAL MOTOR
MOUNT TO BE USED!!..



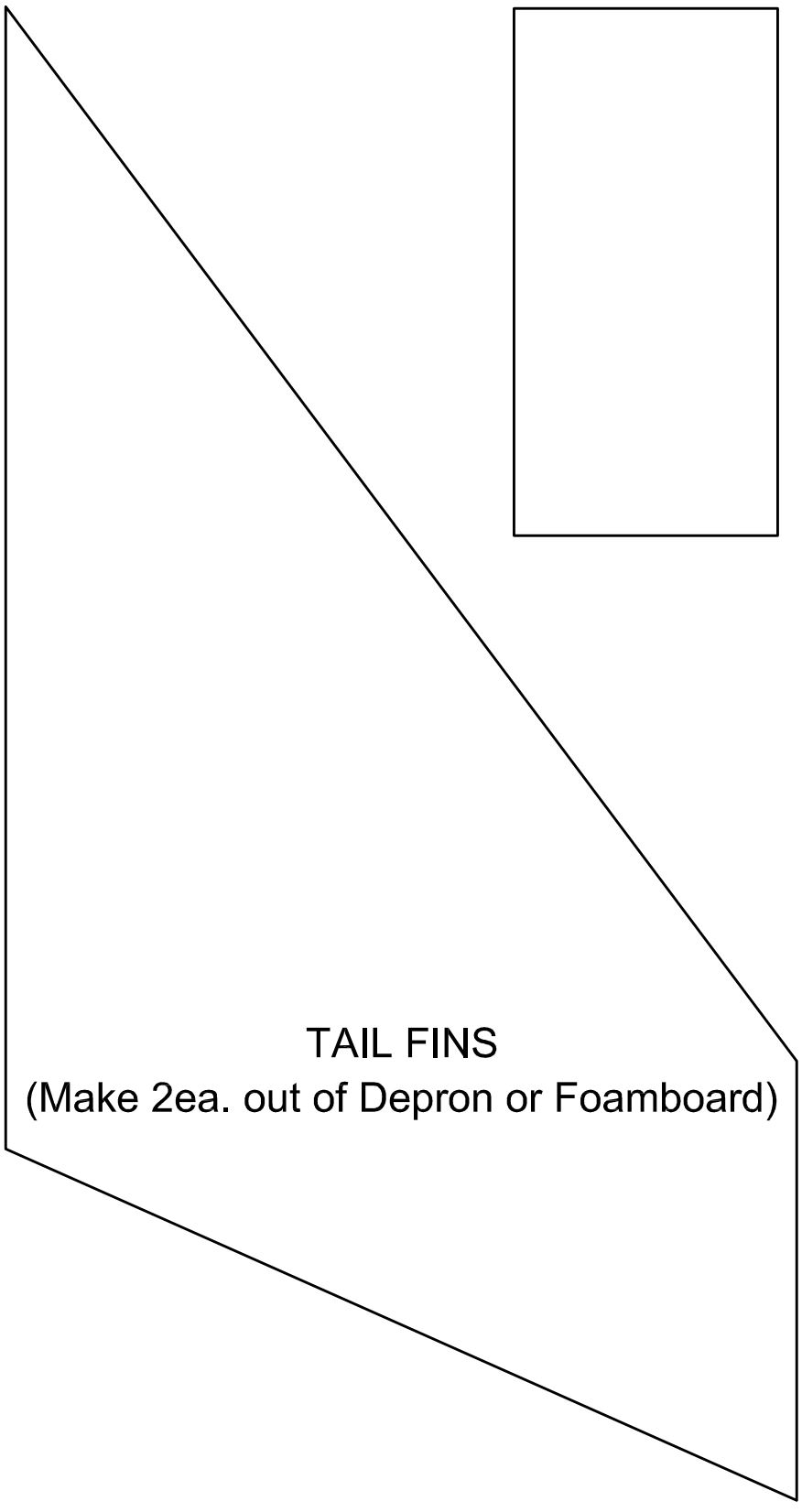
EDGE LINE OF 30"x24" 15mm EPP FOAM SHEET

P14

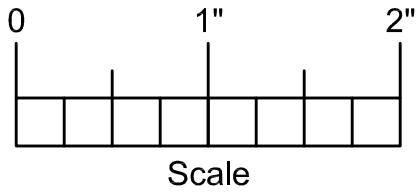

ttom) except tail edges.
(top and bottom).
Bevel Line. Standard 1/2" offset Bevel along all edges of Fuselag

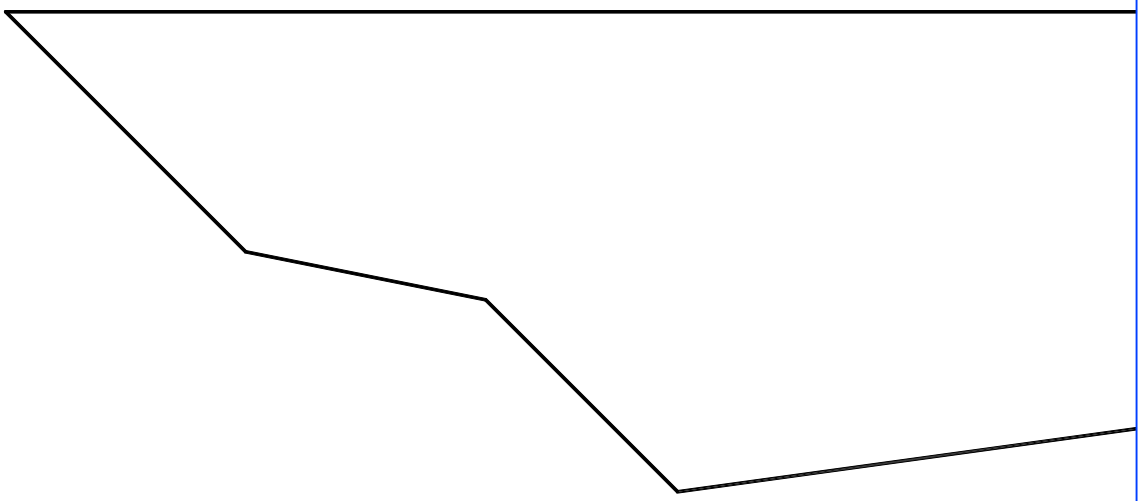
P15

RECEIVER BAY COVER
(Make 1ea. out of Depron or Foamboard)



TAIL FINS
(Make 2ea. out of Depron or Foamboard)

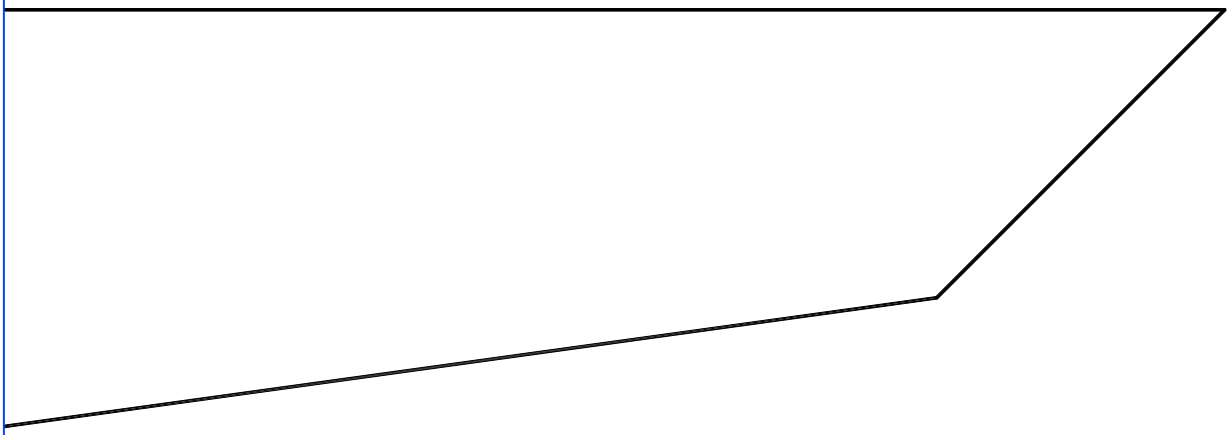




P17

ELEVONS

(Make 2ea. out of 1/8" Balsa)



EDGE LINE OF 30"x24" 15mm EPP FOAM SHEET

Fuselage Upper Piece
(Make with 15mm EPP Foam)

rcFoamFighters

SkyFighter V2 (Basic Template)

(Plane Design by Frank Petty - July. 2009 - Rev 1.0)
(CAD Drawing by Paul Petty - July 2009)

(Contact rcFoamFighters at: admin@rcfoamfighters.com)

0 1" 2"
Scale

Cut battery slot on top fuselage piece.

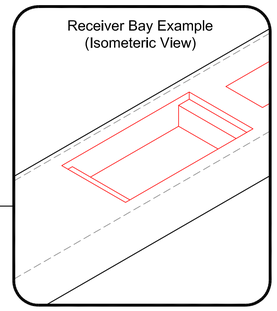
Cut Receiver bay slot on top fuselage piece. Cut a little ledge at front and back of slot for lid to rest on.

Cut shallow slot for ESC on top fuselage piece.

CUT A SHALLOW CHANNEL FOR WIRES, FROM BATTERY SLOT TO MOTOR

Bevel Line. Standard 1/2" offset Bevel along all edges of Fuselage piece.

Receiver Bay Example
(Isometeric View)



DO NOT BEVEL NOSE AREA ON MAIN WING PIECE!!

Cut battery slot on main wing fuselage area.

$14\frac{3}{8}$

Main Wing Piece
(Make with 15mm EPP Foam)

CUT SERVO BAY HERE

CUT SERVO BAY HERE

CG

Approximate CG is 14-3/8" back from the tip of the nose.

Cut Shallow 1/8" Deep Tail Fin Slot (Top Side).

Cut Shallow 1/8" Deep Tail Fin Slot (Top Side).

Bevel Line. Standard 1" offset Bevel along all edges (Top and Bottom) except tail edges.

Bevel Line. Standard 1" offset Bevel along all edges (Top and Bottom) except tail edges.

Cut slot for Basswood or Carbon Spar on Bottom Side of Main Wing.

Cut slot for for Stick type motor mount. VERIFY SIZE WITH ACTUAL MOTOR MOUNT TO BE USED!!..

Bevel Line. Shallow 1-1/4" offset Bevel along tail edge (top and bottom).

Bevel Line. Shallow 1-1/4" offset Bevel along tail edge (top and bottom).

Fuselage Lower Piece
(Make with 15mm EPP Foam)

Bevel Line. Standard 1/2" offset Bevel along all edges of Fuselage piece.

EDGE LINE OF 30"x24" 15mm EPP FOAM SHEET