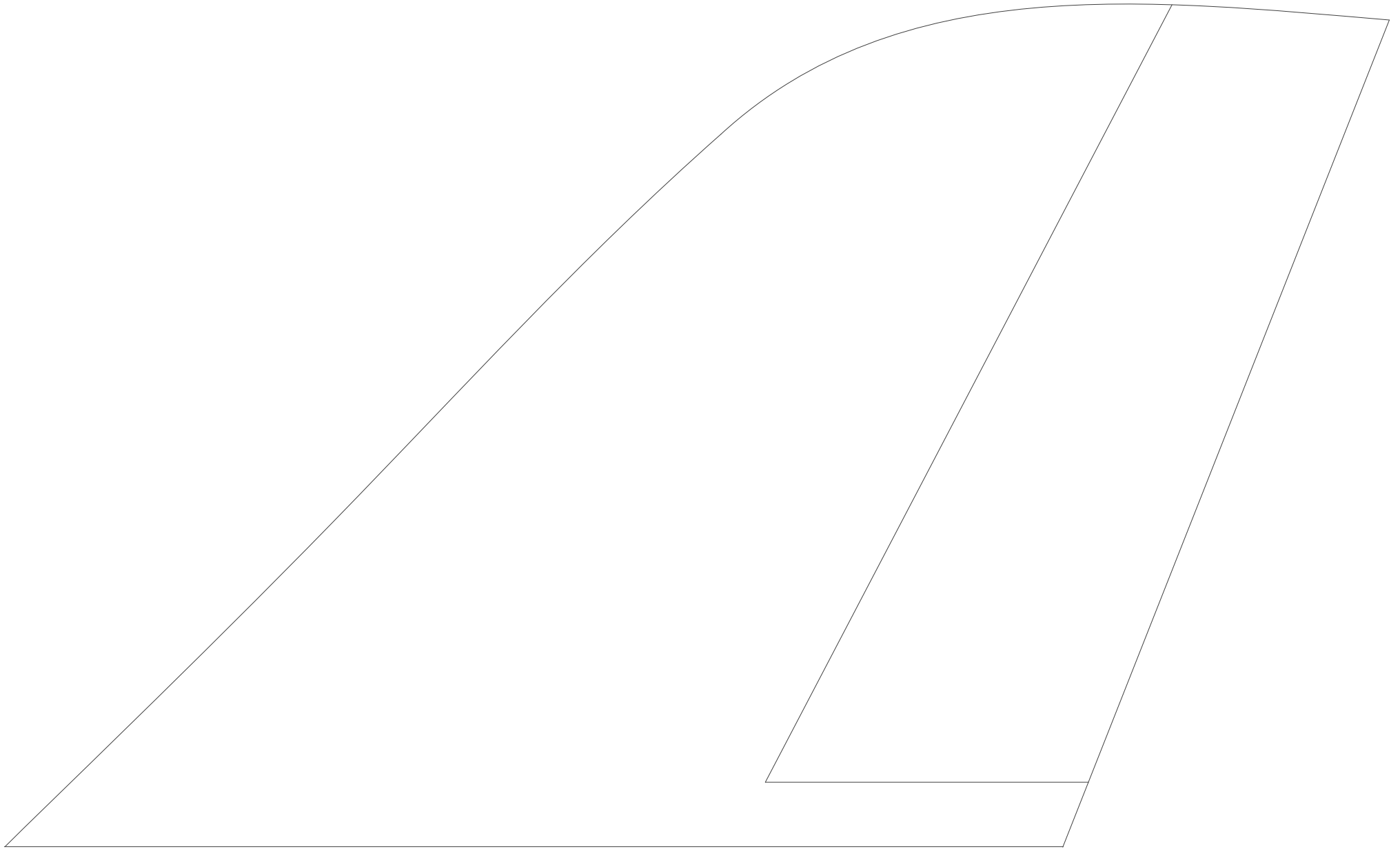


Orka – Twin Pusher Advanced Trainer

- Semi scale Foam board quick build plan by Elewon @RCGroups
- Twin pusher plane modeled after Orka EM 11.
- 58" WS, 2.6 sqft wing area, over 14 oz/sqft wing loading with ~8 oz battery
- Electronics Required:
 - Servos: 9g x 7 or 9g x 6 with no landing gear
 - ESCs: 30A x 2
 - Motors: 50g 1400-1800kV x 2
 - Battery: 2200 – 3300mAh x 1
 - LEDs: White/Red/Green strips
 - Props: 6x4 or 7x4 or 7x5 x 2 (CW and CCW)
- Other Materials:
 - DT foam board x 3 sheets
 - Low temp hot glue
 - ½ x ¾ x 1/16 Aluminum bar - 15"
 - 1mmx36" music wire for push rods – 3
 - Paint stir stick from Home Depot - 1
 - Screws etc
- Notes:
 - Battery capacity (**AH**) x **C** rating must be > 90
 - Use 6x4 or 7x4 prop with 1800kV and 7x5 with 1400kV
 - Use ESCs with at least 3A BEC or a separate BEC
- Disclaimer:
 - This is a scale model and requires scratch building experience as well as flight experience on a plane with flaps and landing gear. The plane is very stable, responsive, and easy to handle but it is not forgiving. Recovering from tough spots will be difficult if you don't make right decisions.
 - This is an effort to document detailed plans for the said plane but it is not possible to cover every detail.
 - RC plane building and flying are dangerous activities and you are responsible for all your actions. Be safe and happy flying!



V Stab and Rudder



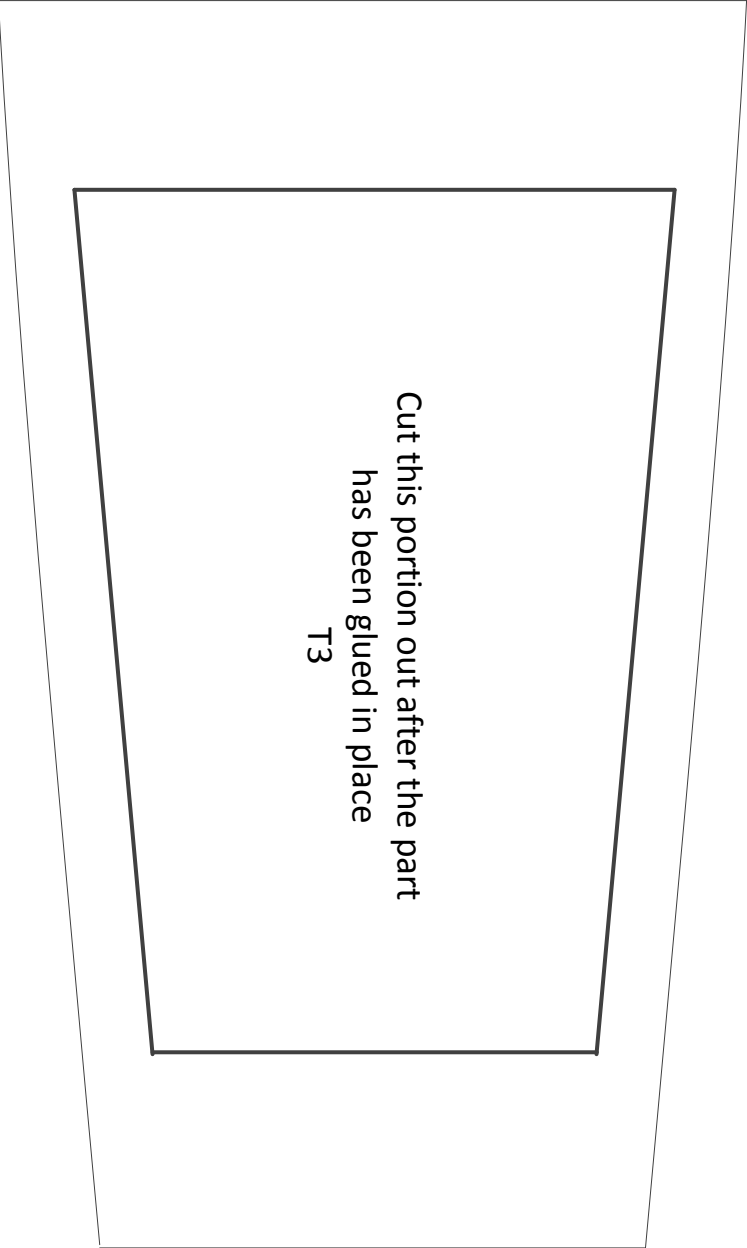
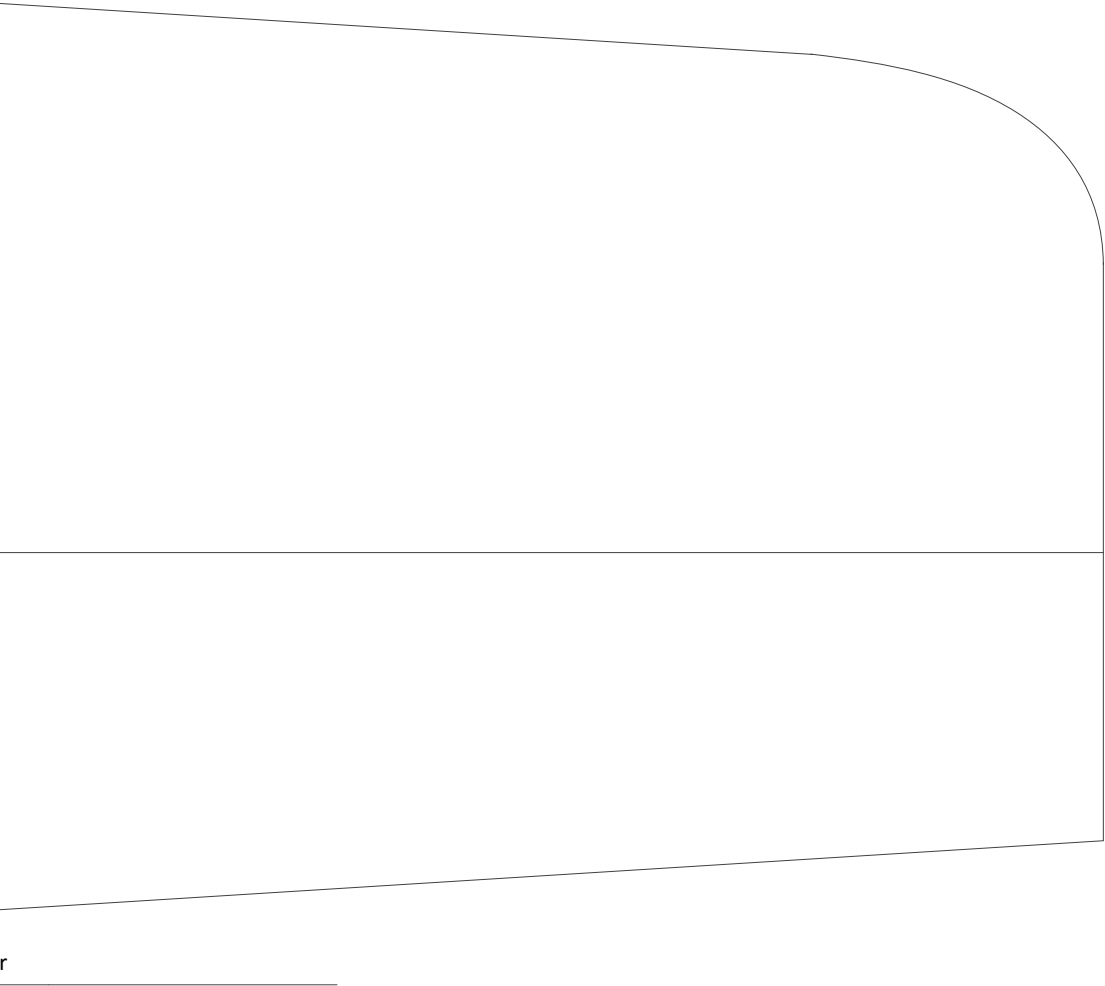
H Stab and Elevator



3 Inch Ruler



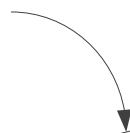
Wing Saddle Former



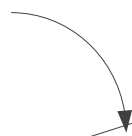
Fuse Side Plate
Cut 2 pieces
Remove paper on the inner surface



T1 goes here

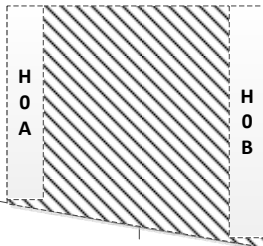


T2 goes here



Battery Hatch

Paint Stick, Cut to Size



Nose LG



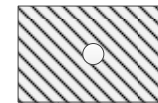
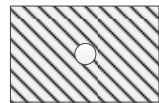
3 Inch Ruler



Fuse Side Plate

T3 goes here

CG



Pieces of jumbo popsicle stick glued on outer as well as inner surface (8 total). Align the holes and glue piece of bamboo skewers through to work as rubber band retainers

Servo/Battery Tray goes here

Bulkheads
(all not shown)

H6B

Main LG

uler

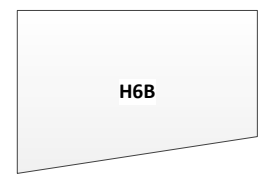
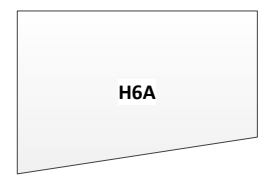
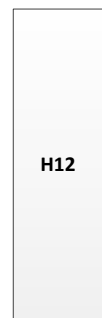
3 Inch Ruler

Fuse Side Plate

T4 goes here

Aft Bulk Heads and push rod guides

B2 goes here



uler

3 Inch Ruler

Wing panel coordinates as laid out on 2 sheets⁷of DT foam boards

Fuse Side Plate

H10

H9

H8

H2

H1

Vent, do not close

B3 goes here

Battery/Servo Tray

Foam Board Spacer

Waterproof Wire Strap

Remove paper on the inner

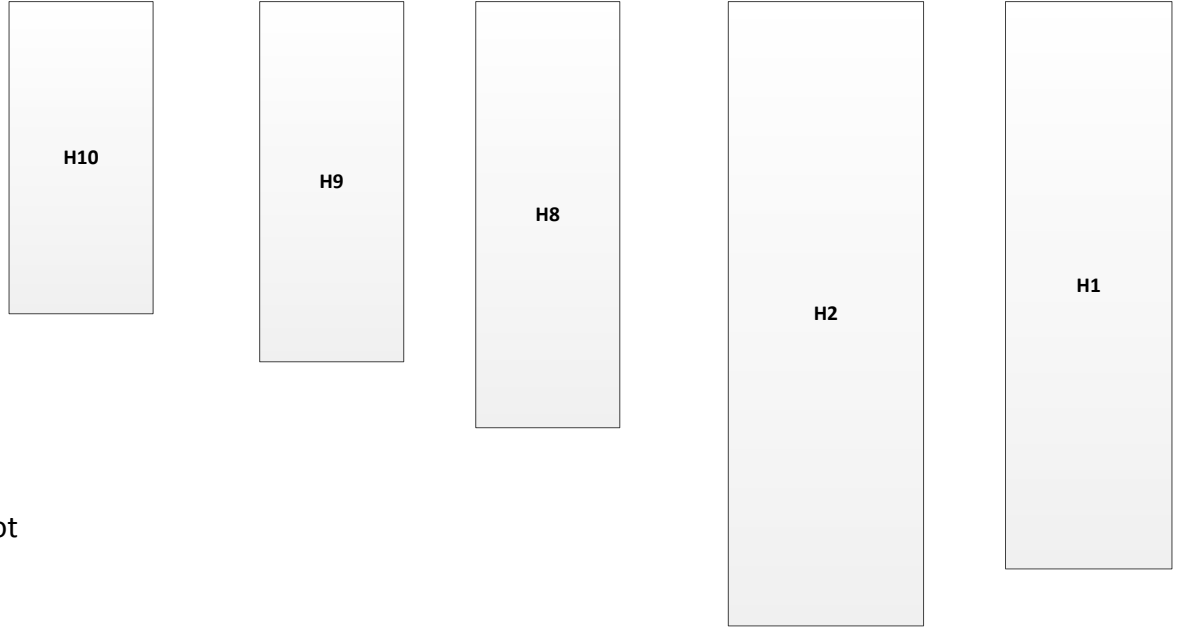
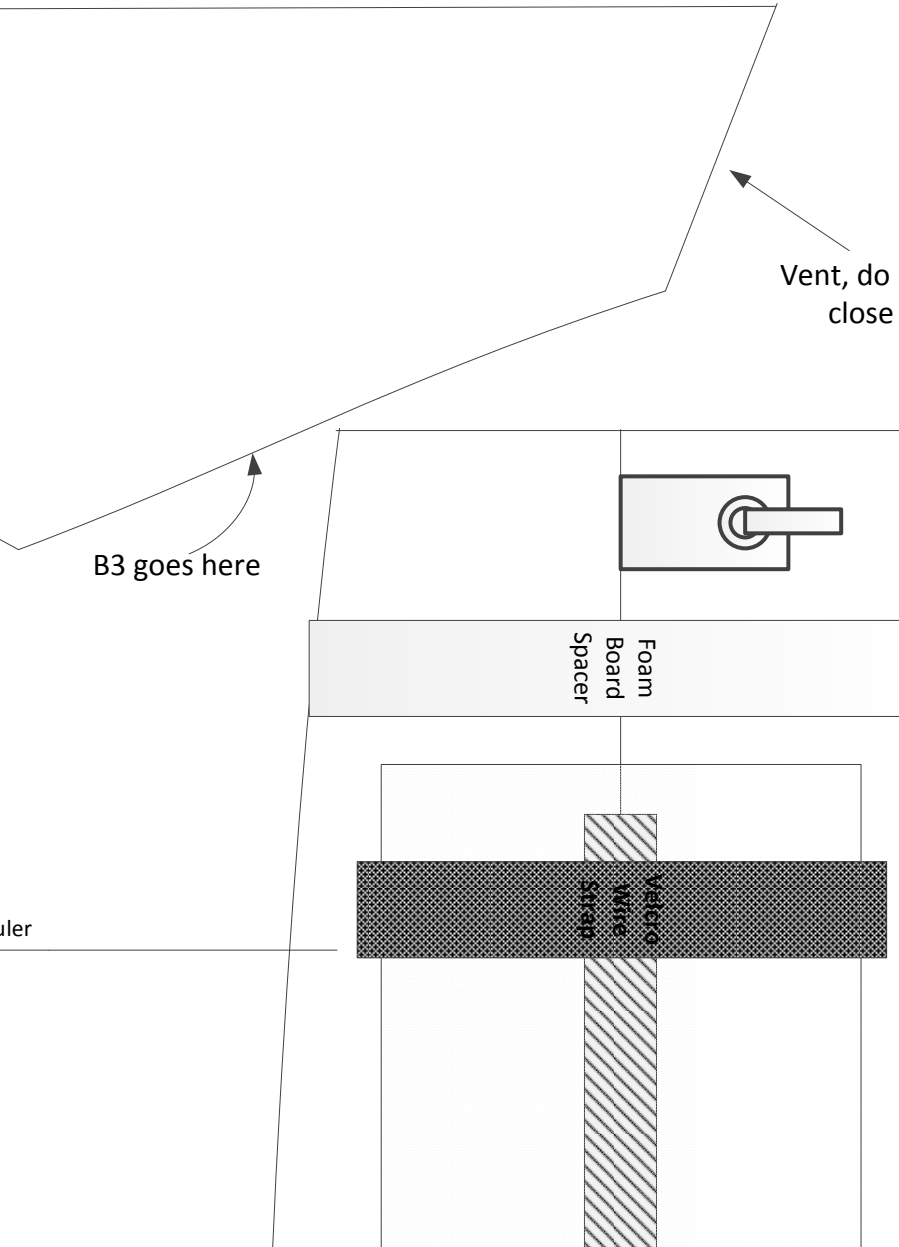
T4

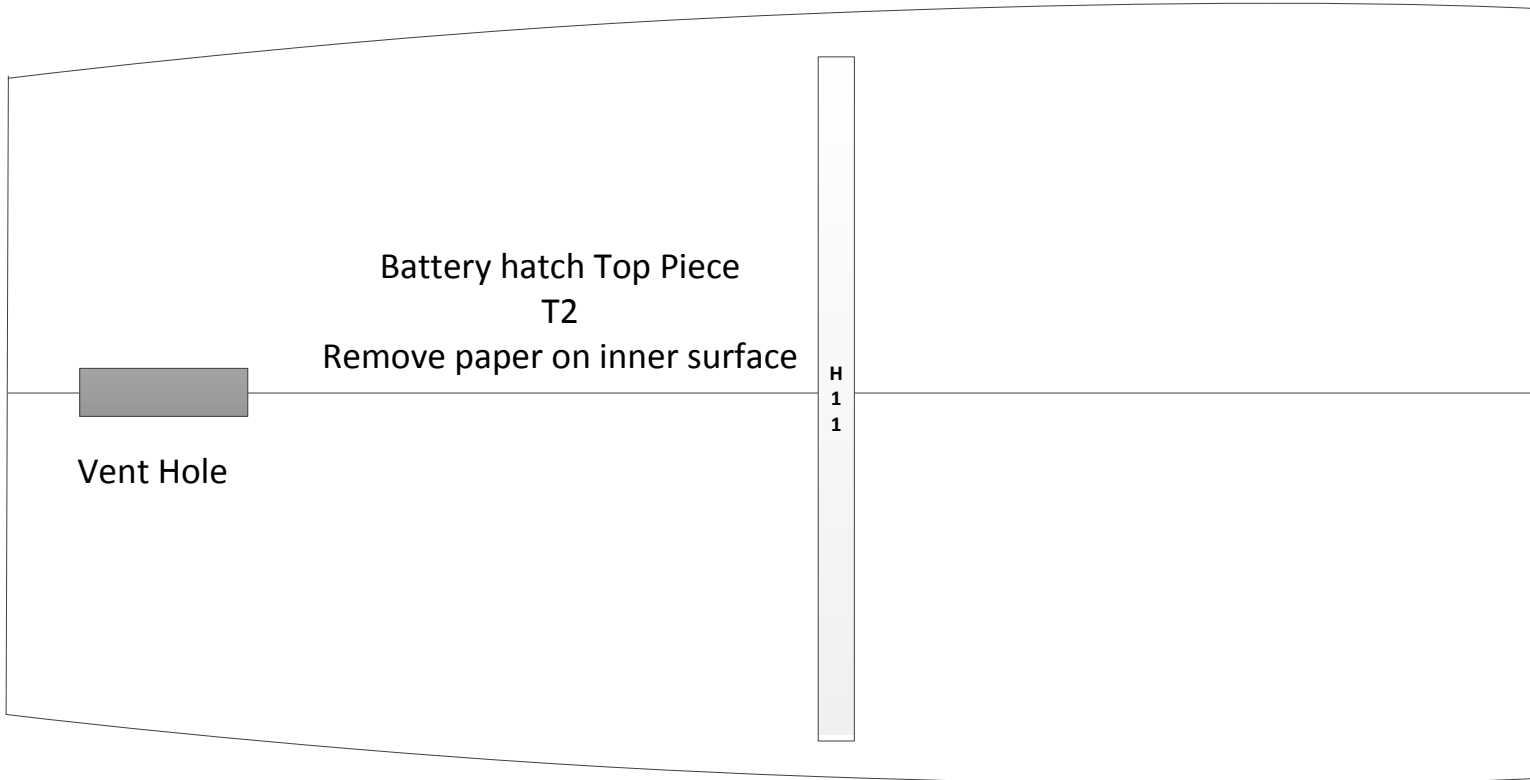
Aft Fuse/Tail Top piece

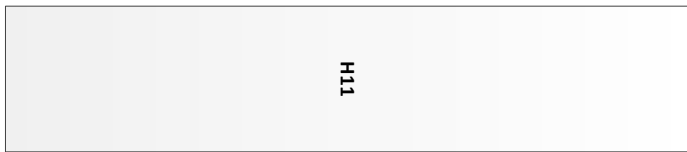
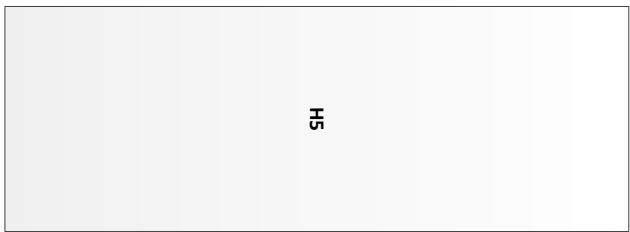
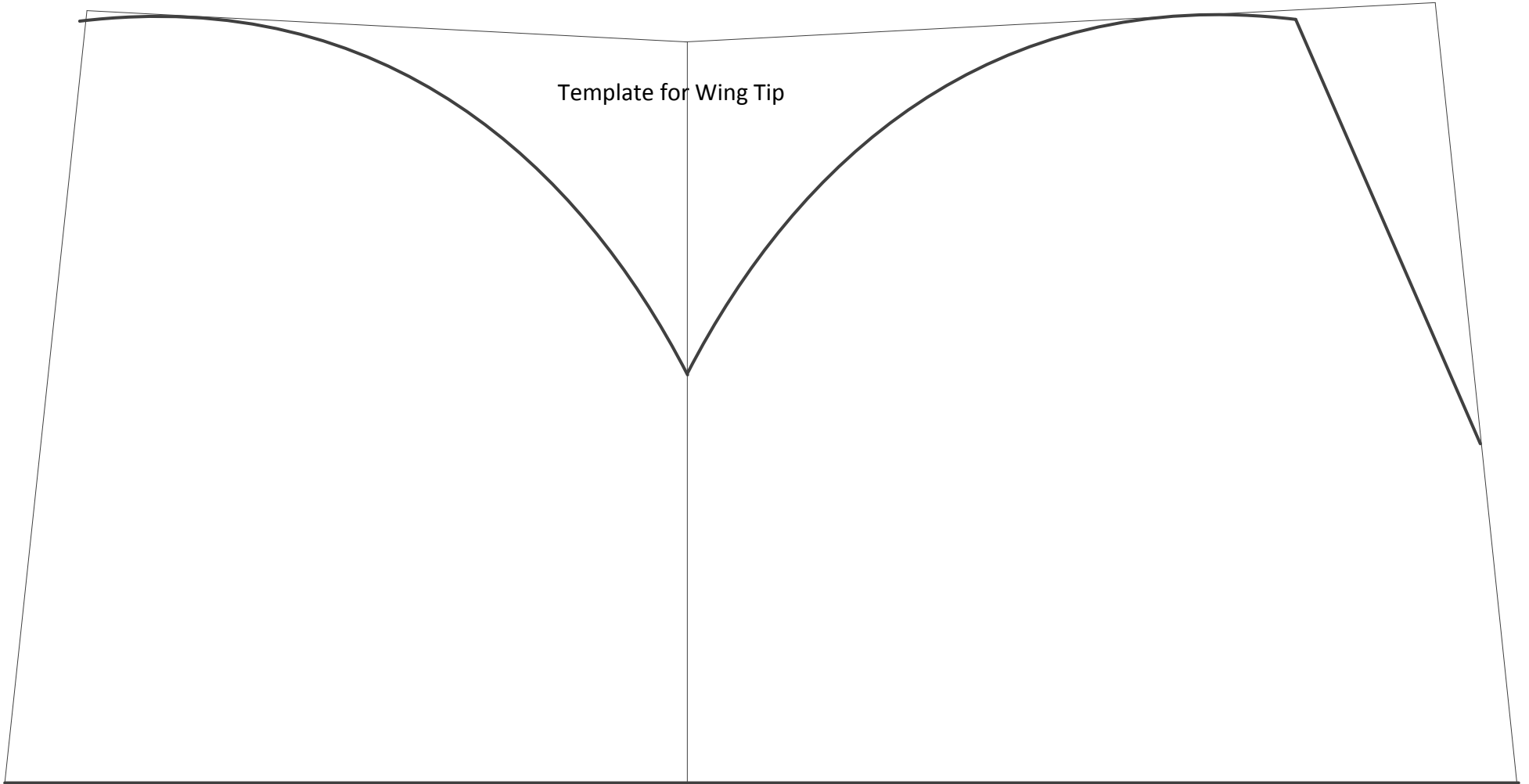
8

3
1
2
4
5
6
7

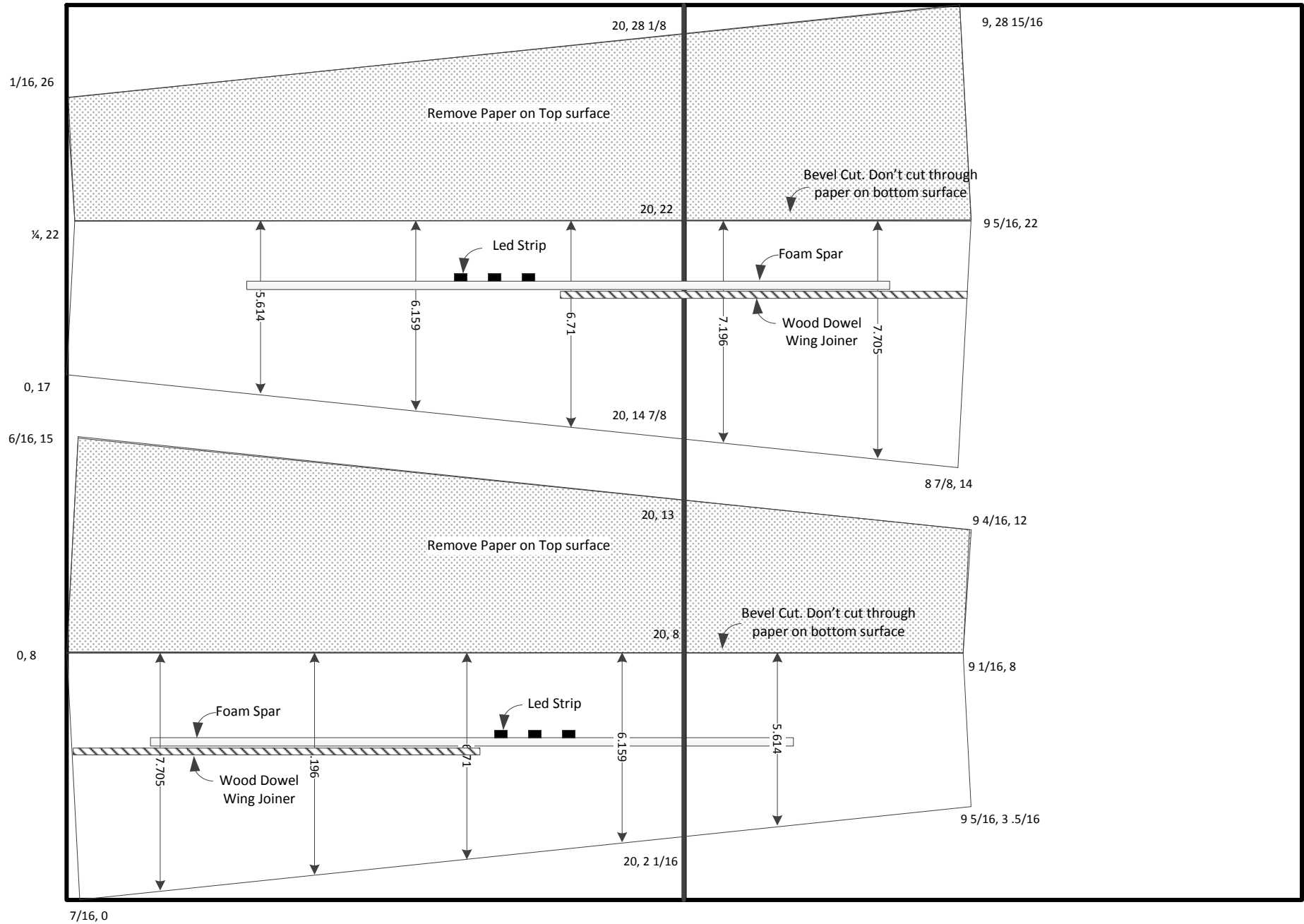
uler

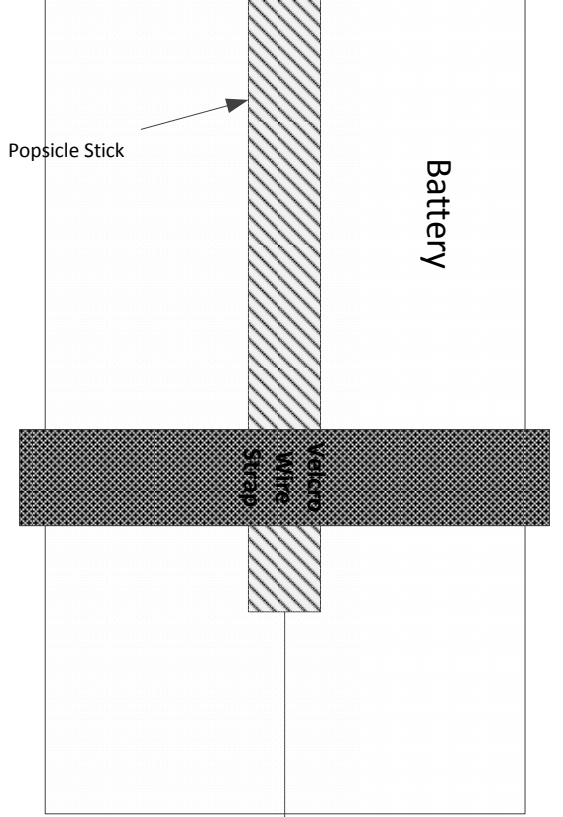






Wing panel coordinates as laid out on 2 sheets of DT foam boards
 CG is at 2 11/16" from LE





inner surface
top piece

3
I
n
c
h
R

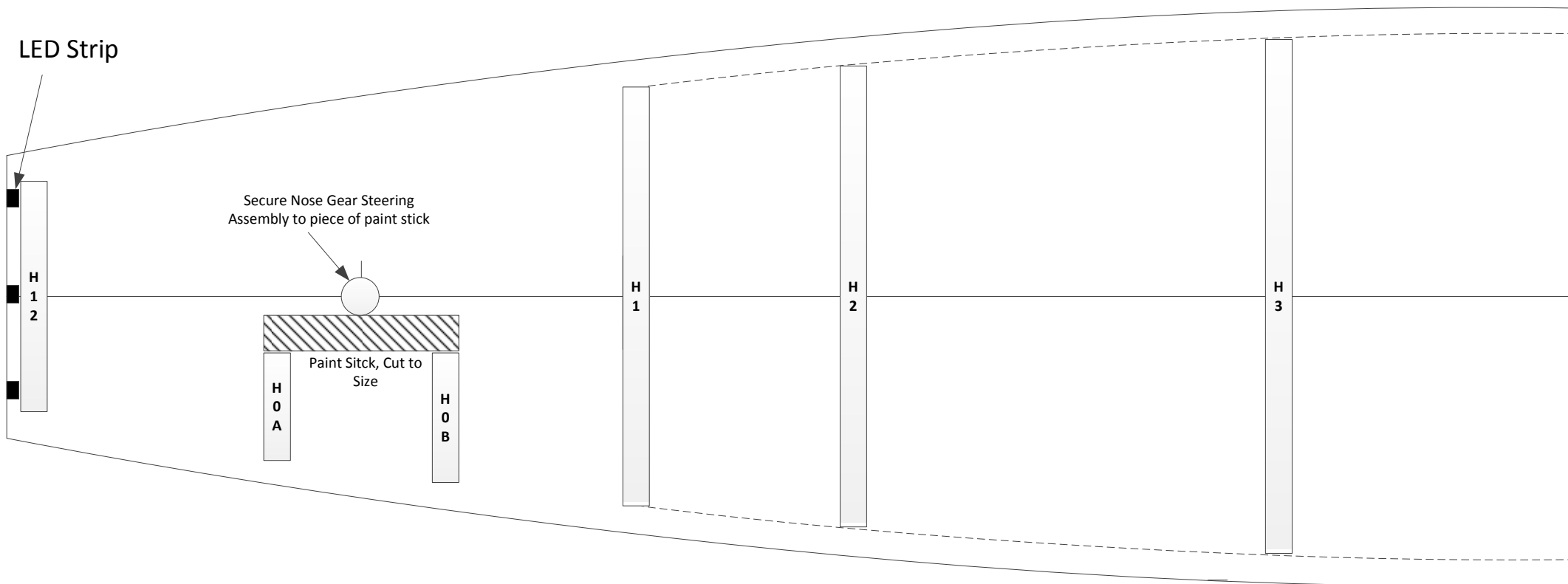
c
h
R
u
l
e
r



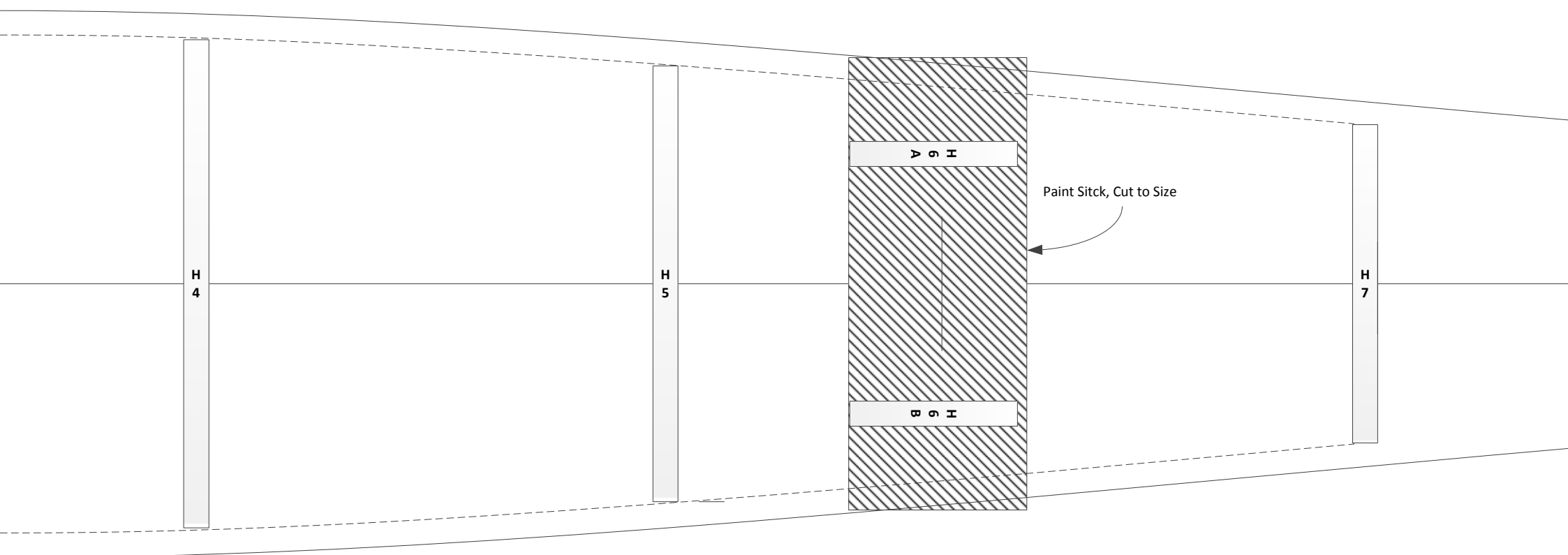
Fuse Bottom Plate

Remove paper on the inner surface

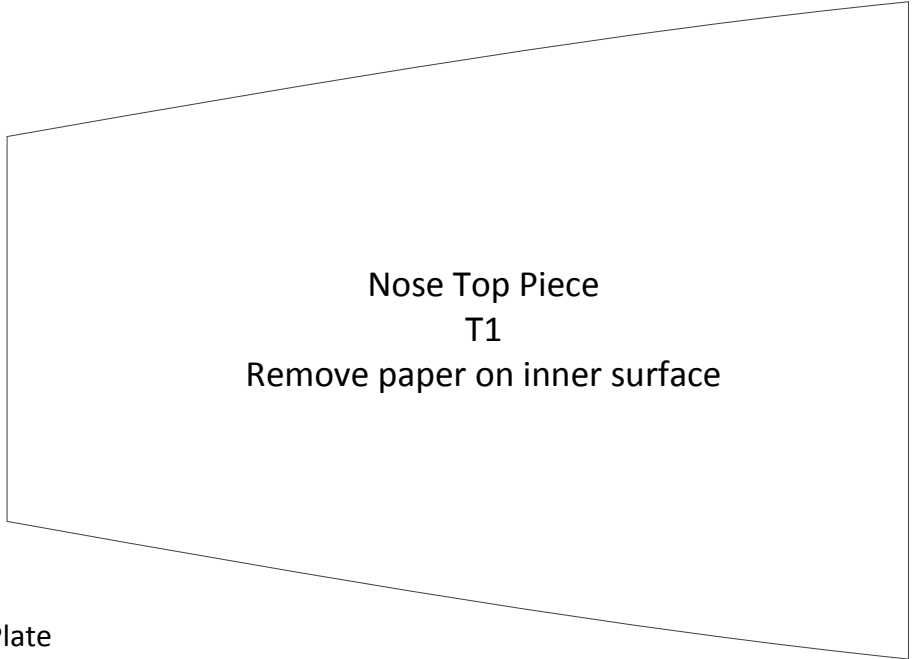
3 Inch Ruler



Fuse Bottom Plate

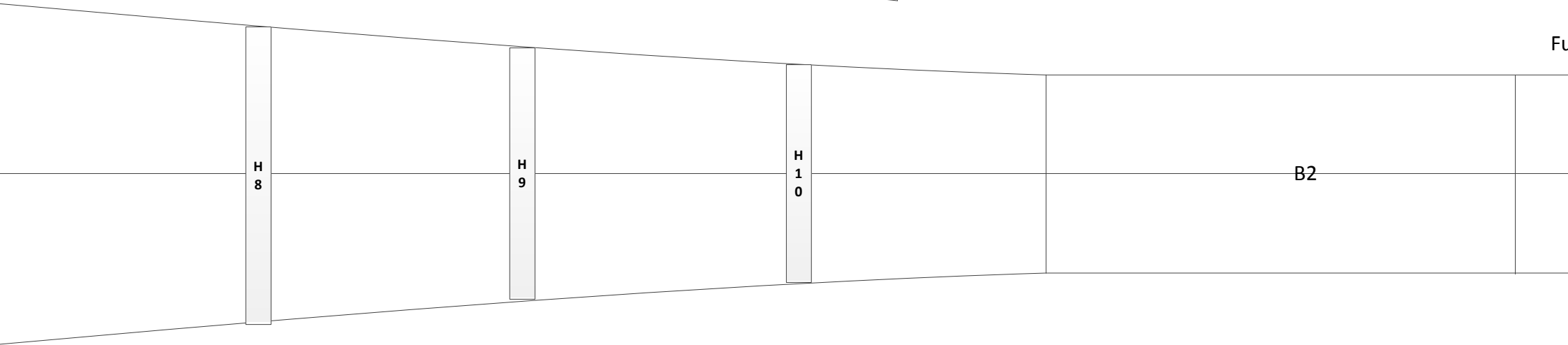


uler

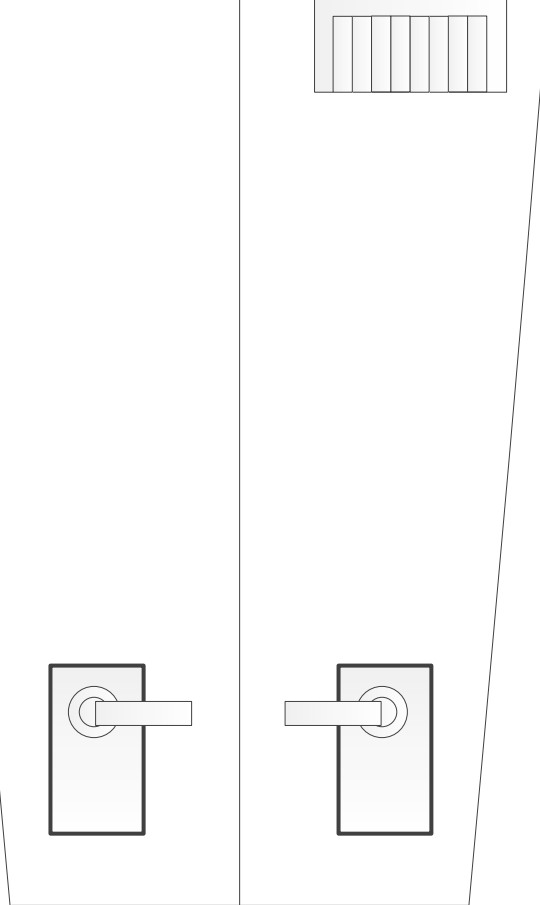


3 Inch Ruler

Fuse Bottom Plate



uler



Fuse Bottom Plate

	B3

ch
R
u
l
e
r