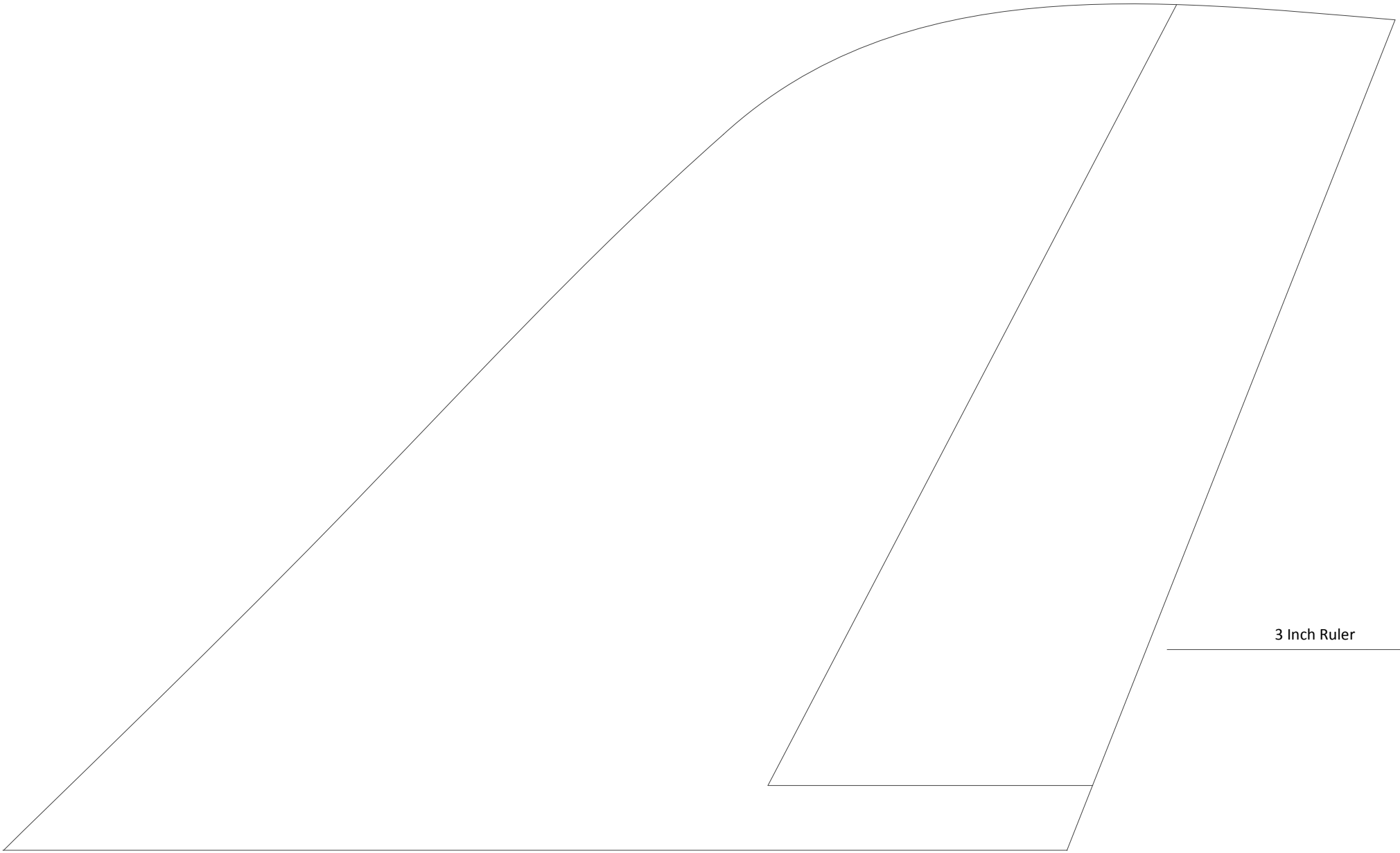
Orka – Twin Pusher Advanced Trainer

- 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!

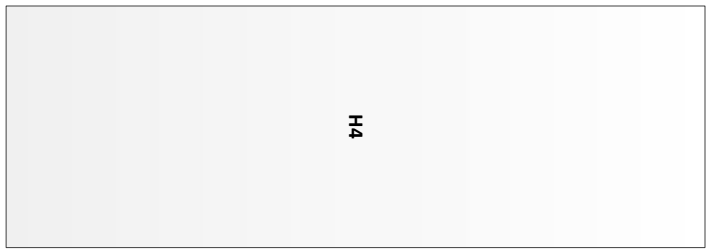
V Stab and Rudder



H Stab and Elevator

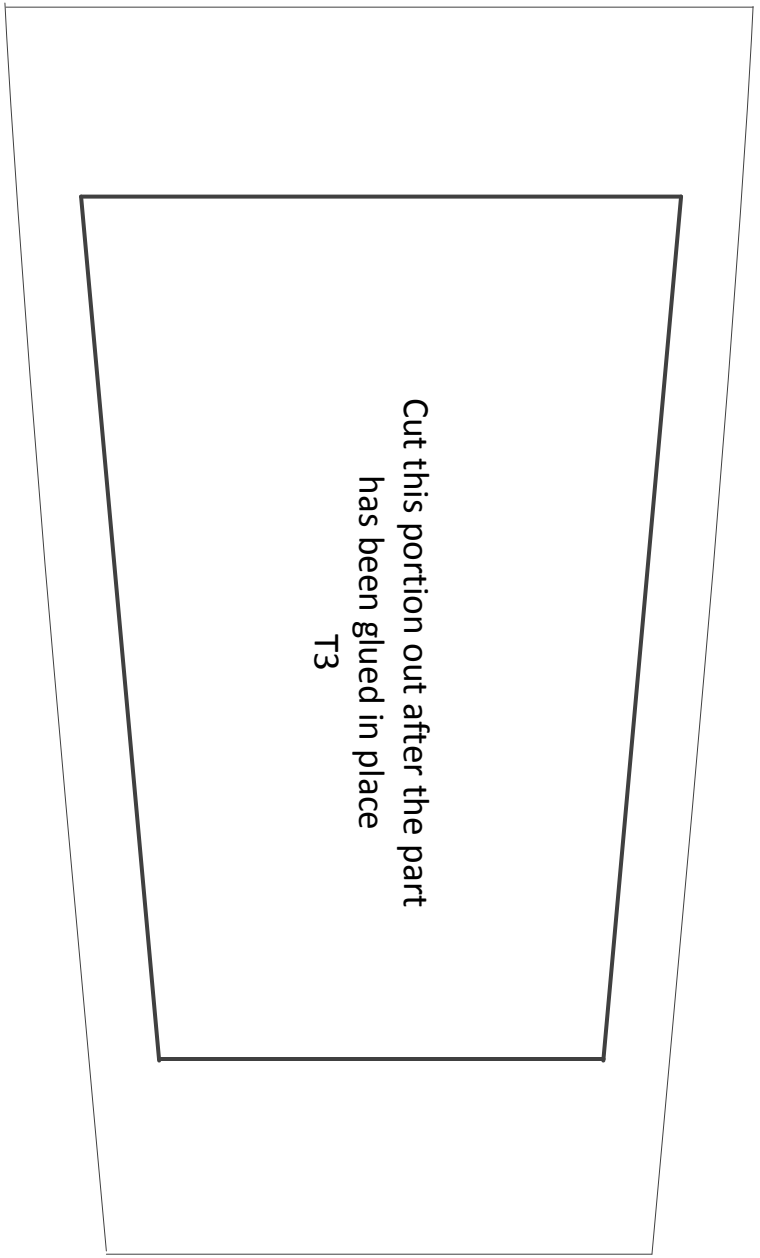
uler

3 Inch Ruler

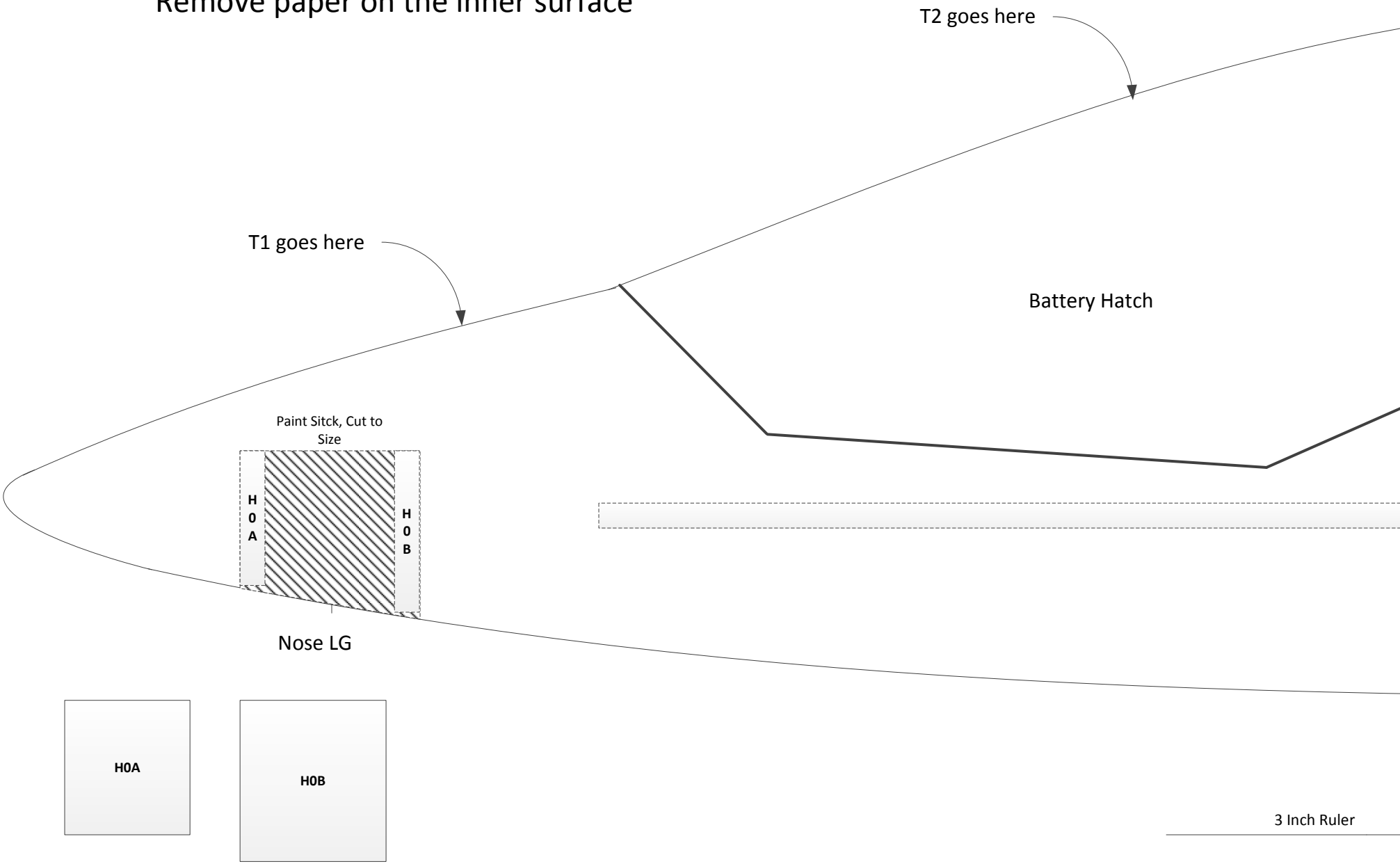


H Stab and Elevator

r

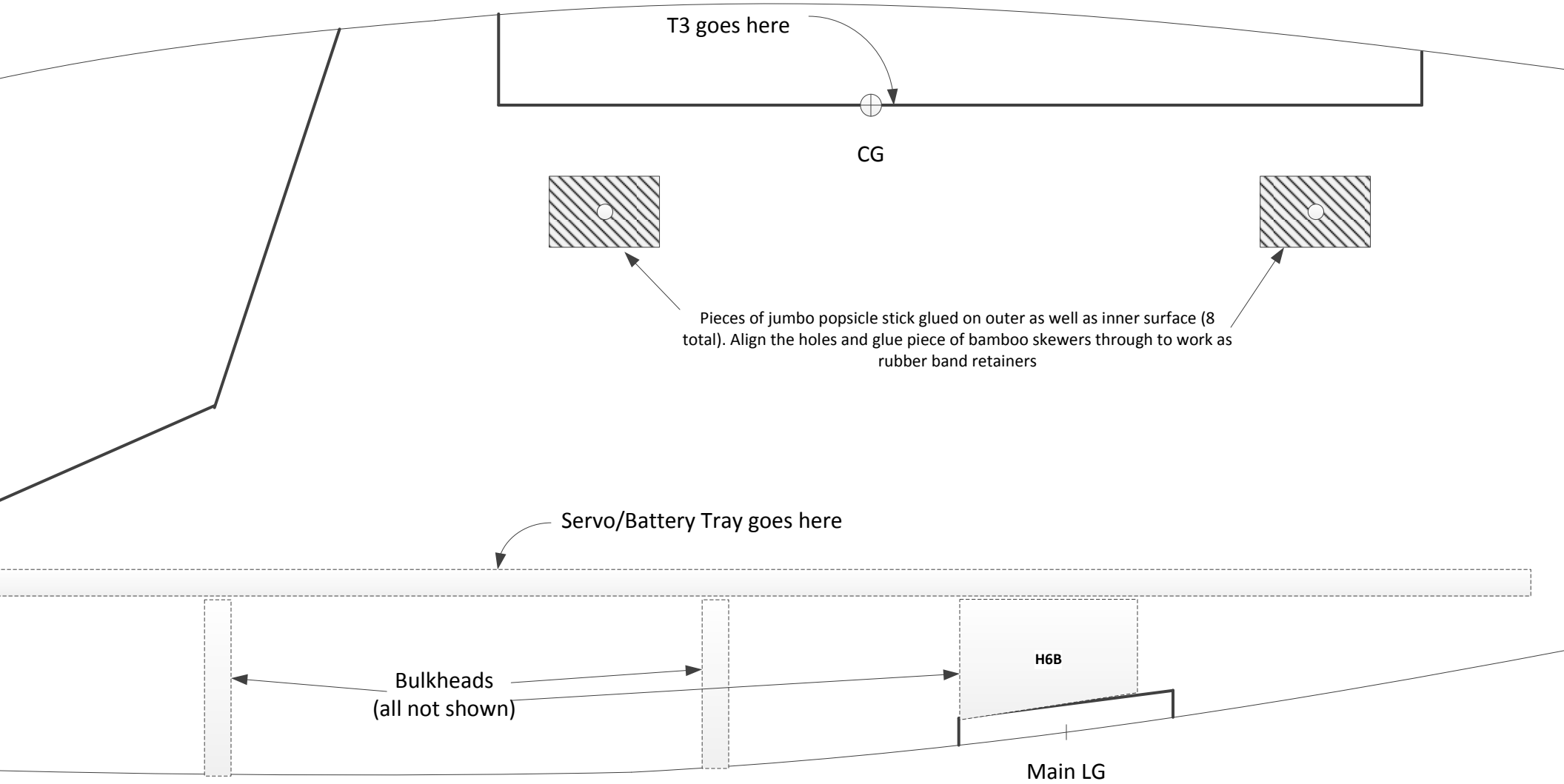


Fuse Side Plate
Cut 2 pieces
Remove paper on the inner surface



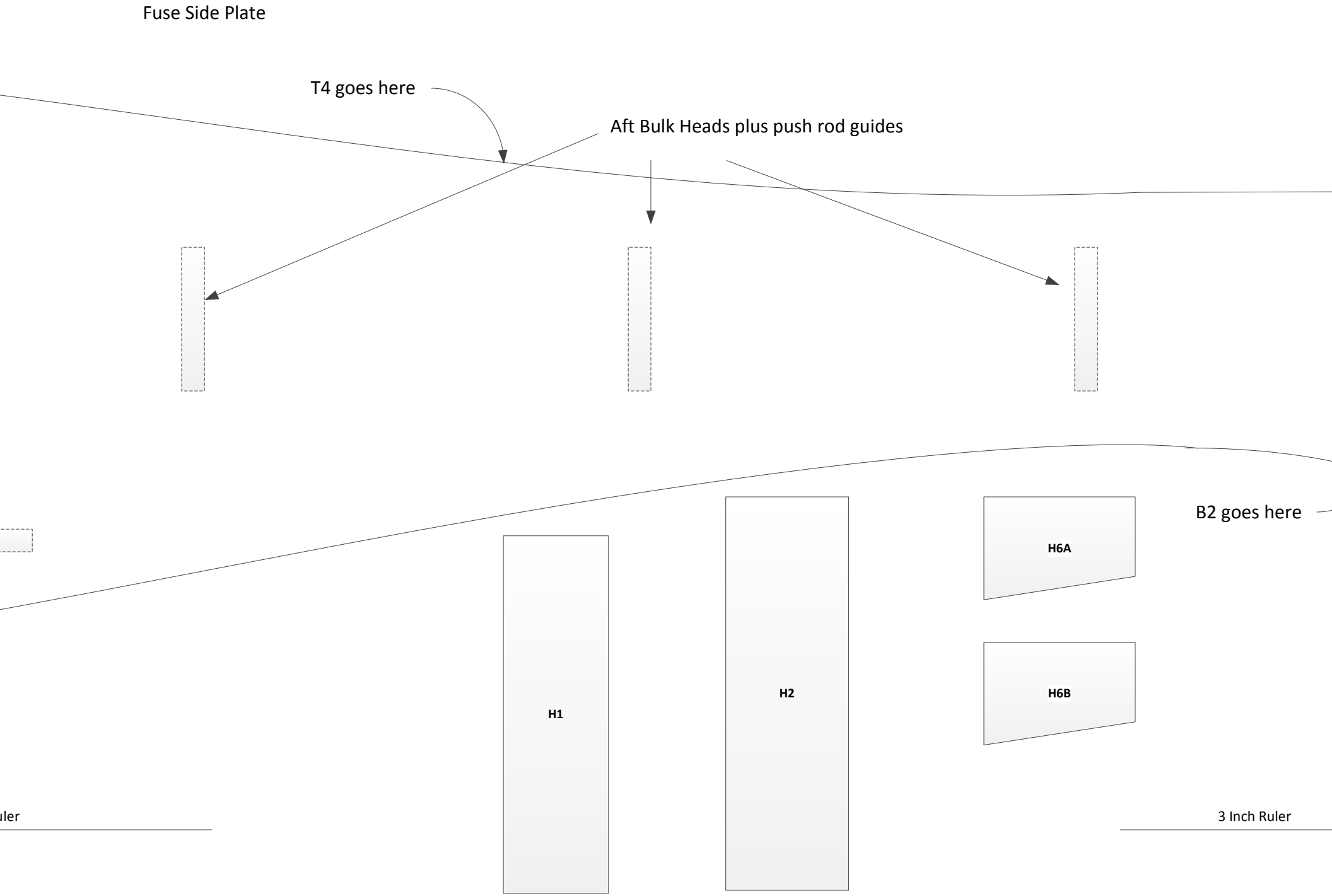
3 Inch Ruler

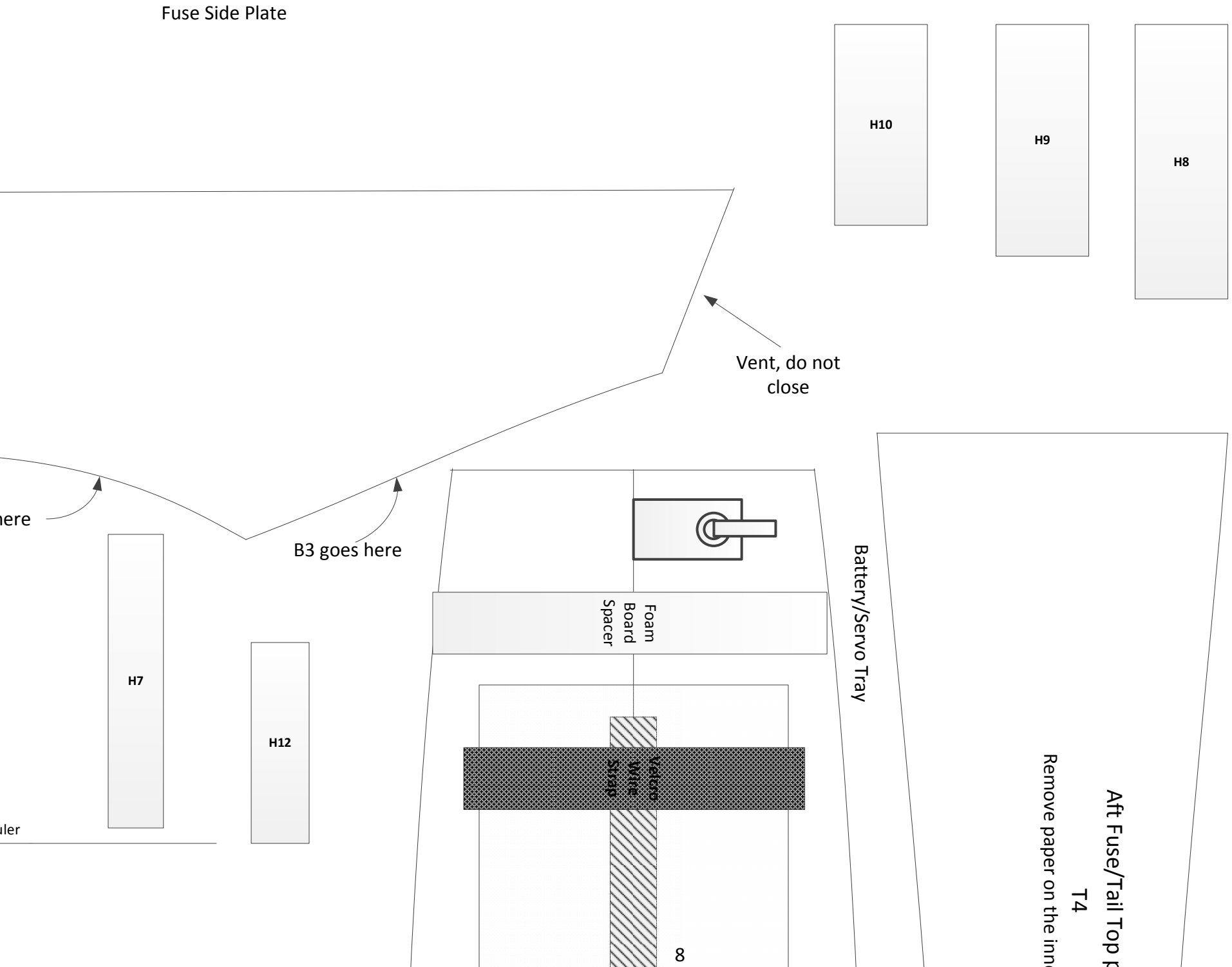
Fuse Side Plate

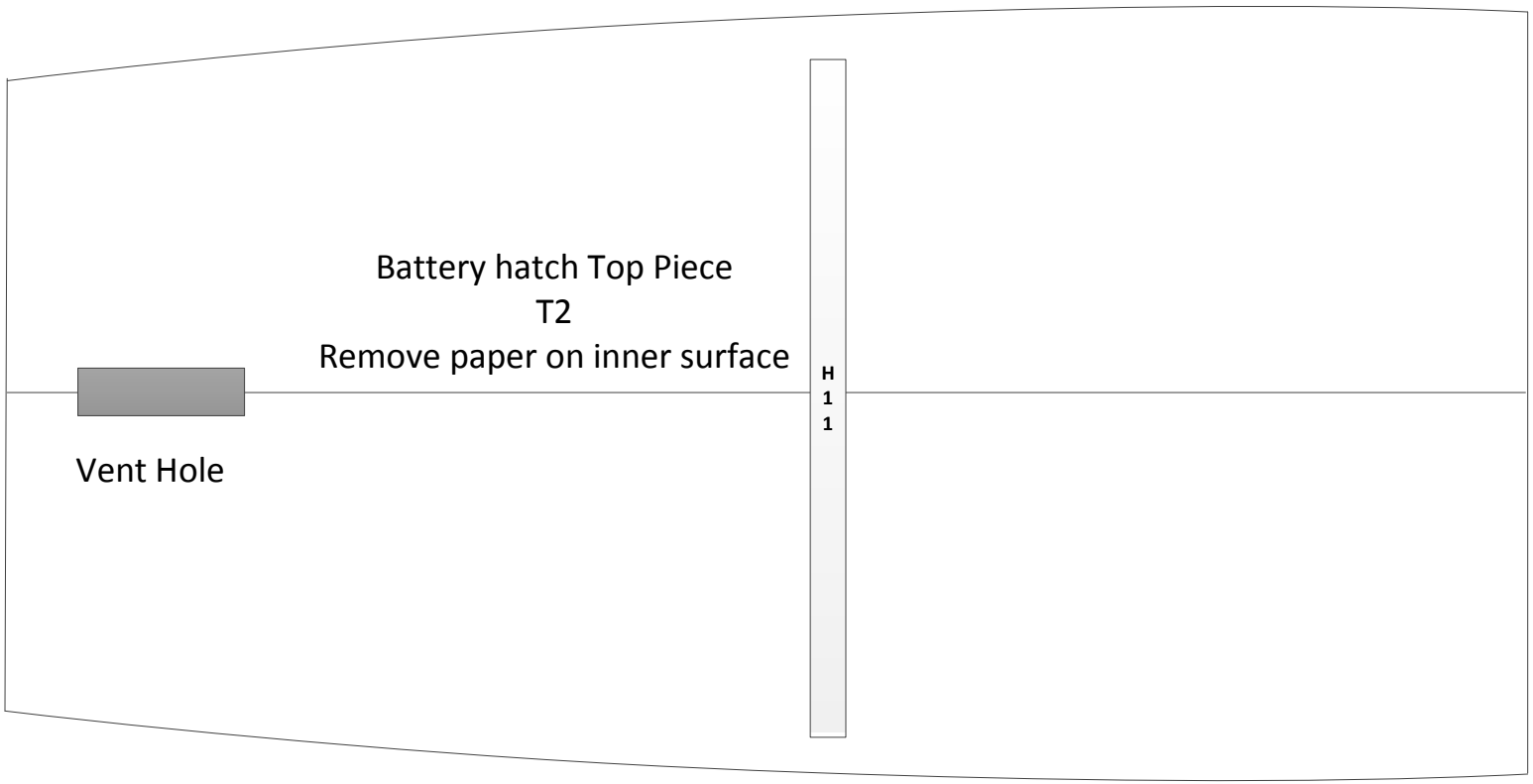


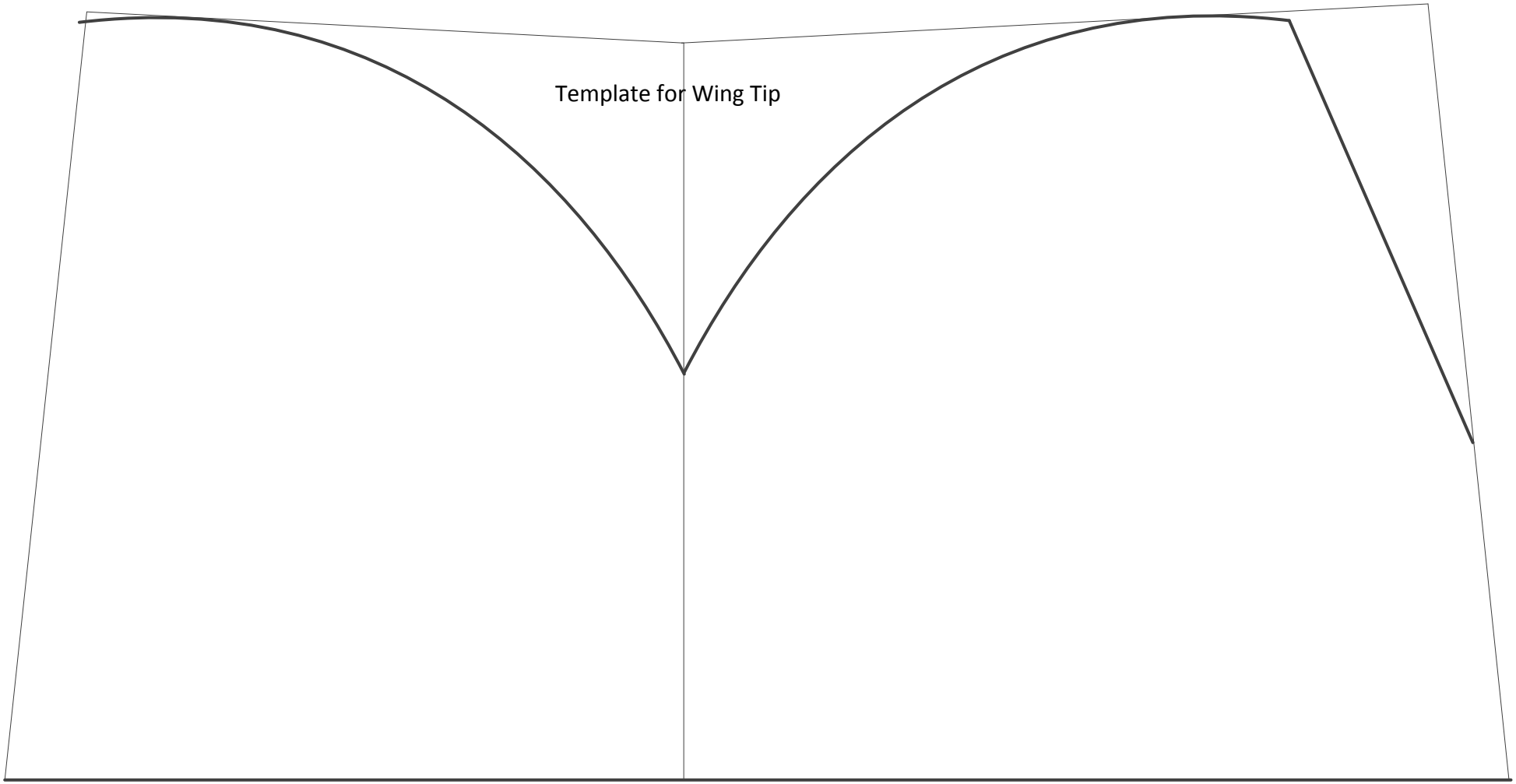
uler

3 Inch Ruler


Fuse Side Plate
T4 goes here
Aft Bulk Heads plus push rod guides
B2 goes here
H1
H2
H6A
H6B
3 Inch Ruler


Fuse Side Plate
H10
H9
H8
Vent, do not close
here
B3 goes here
H7
H12
uler
Foam Board Spacer
Velcro Wire Strap
Battery/Servo Tray
Aft Fuse/Tail Top
T4
Remove paper on the inn
8
3
I
n
c
h
R

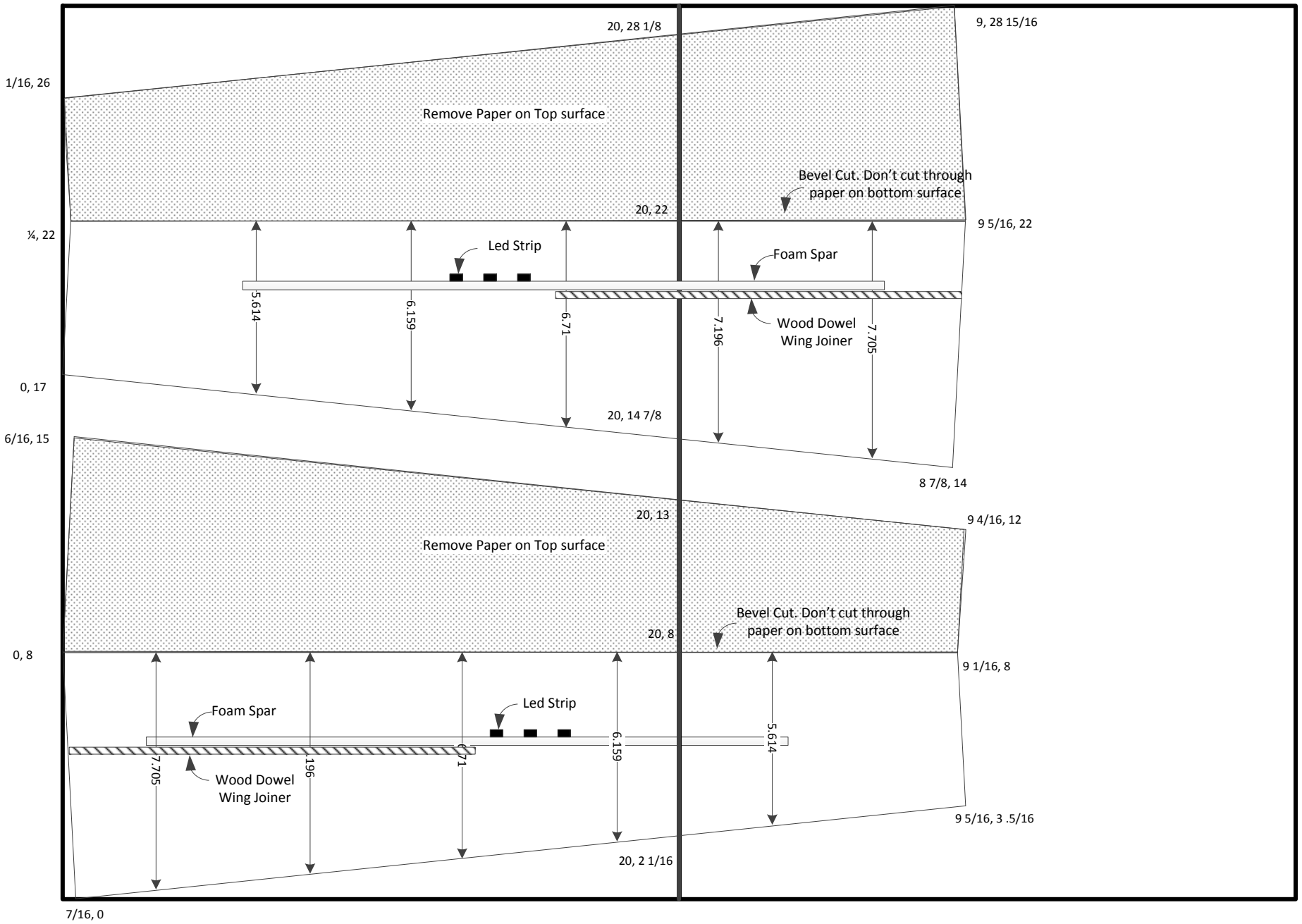

Battery hatch Top Piece
T2
Remove paper on inner surface
H
1
1
Vent Hole



H5

H11

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



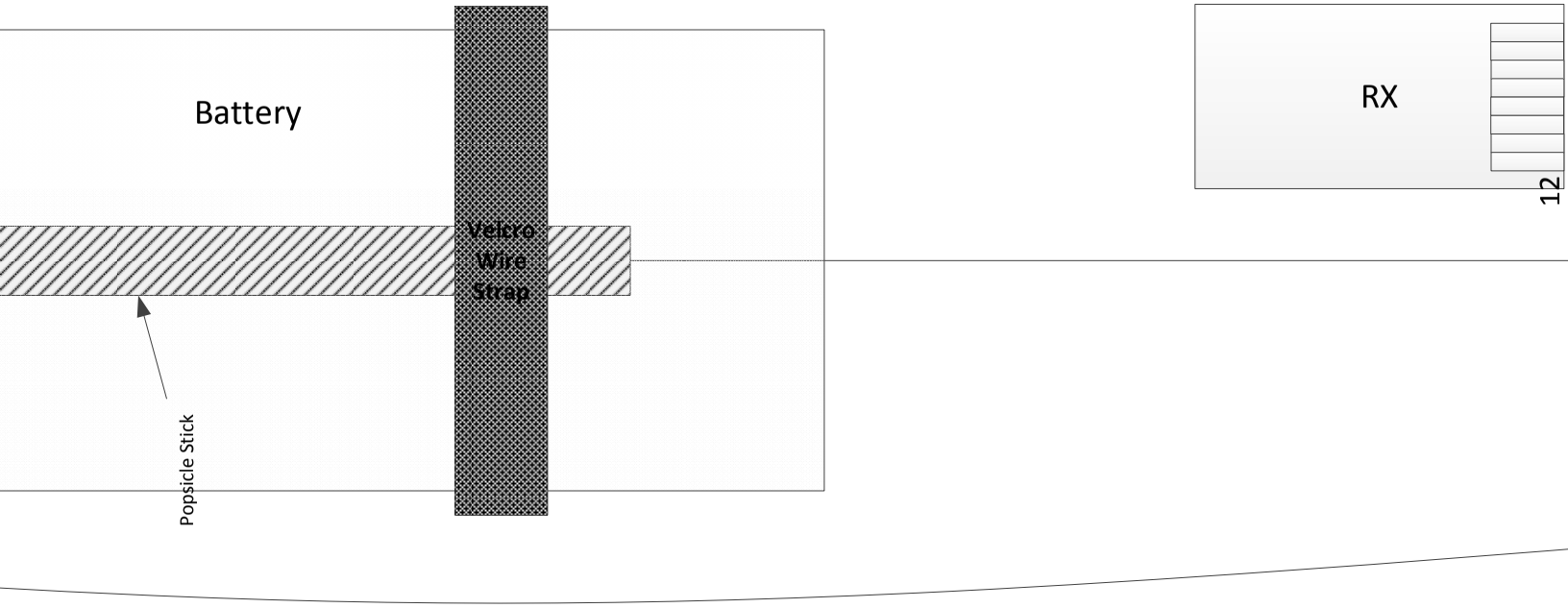
c h R u l e r

3 I n c h R

l Top piece

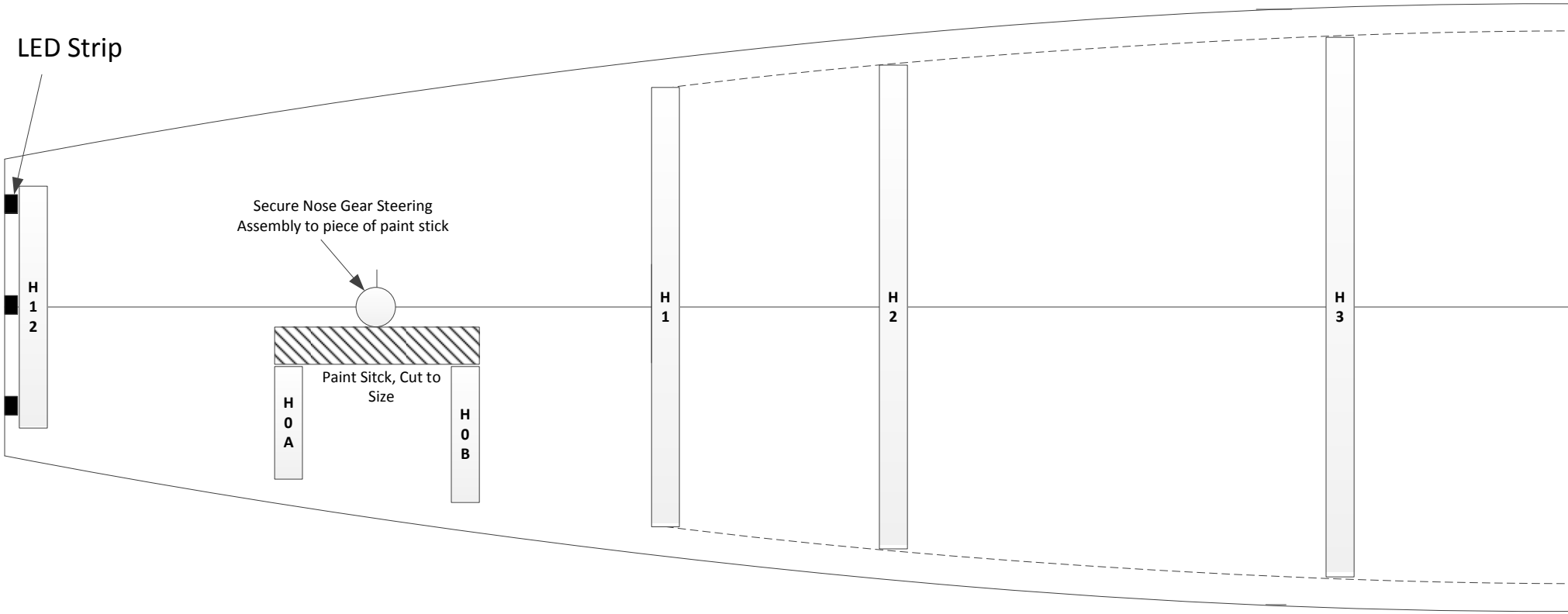
4

the inner surface

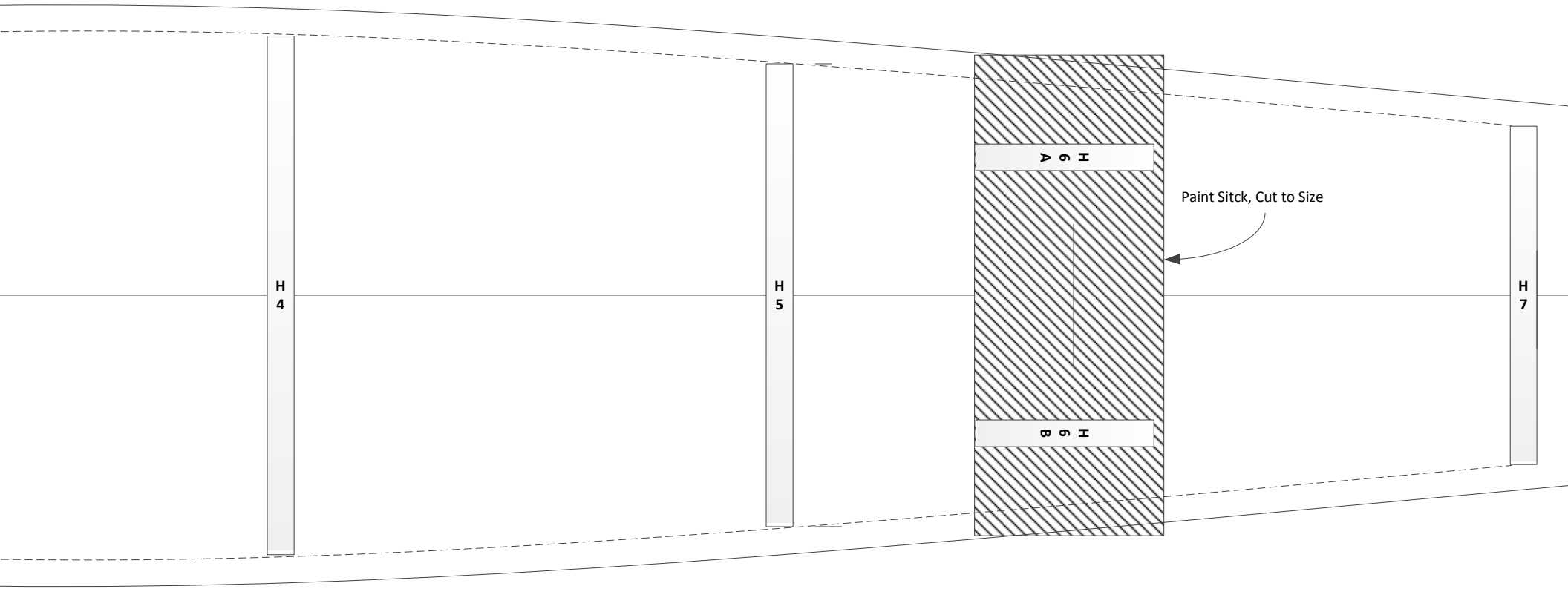


Fuse Bottom Plate
Remove paper on the inner surface

3 Inch Ruler



Fuse Bottom Plate



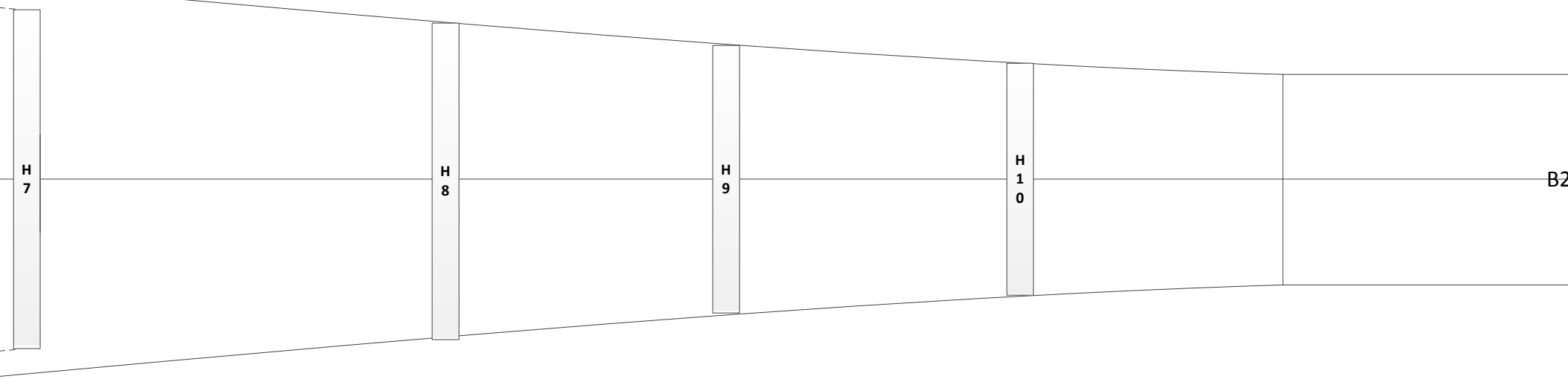
7/16, 0

uler

3 Inch Ruler

Nose Top Piece
T1
Remove paper on inner surface

Fuse Bottom Plate



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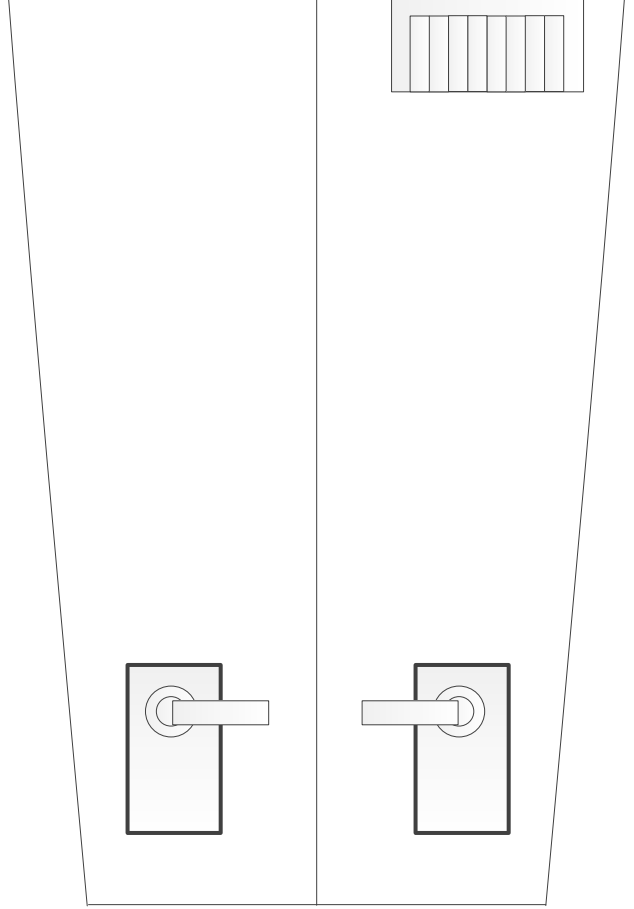
Ruler

uler



Fuse Bottom Plate

B2	B3