

# F-105 "Thud" Park Jet

## 1/13th Scale

Designed by: Ben Song

Wing Span: 31 7/8in

Length: 59 1/2in

Wing Area: 225sqin

AUW: 24-32oz

Wing Loading: 15-20oz/sqft

C of G: 82mm forward of TE along root (8.5" aft of LE root)

Servos: 2-3 (elevator x1, ailerons x1 or 2)

Motor:

Battery: 2100 3s1p lipo

Max Amps: A

Control Throws:

Aileron: 3/4" up & down (-40% expo) high rates, 1/2" up & down low rates

Elevator: 3/8" up & down (-40% expo) high rates, 3/8" up & down low rates

Made from FFF or 6mm Depron unless otherwise specified.

If you enjoy these plans, please consider a \$10 Paypal donation to [benjsong@hotmail.com](mailto:benjsong@hotmail.com) if you would like to see more designs.

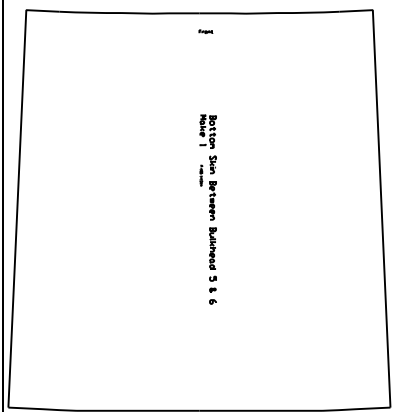
# F-105 "Thud" Park Jet

1/13th Scale

Designed by Sam Song  
Wing Span: 31.75in.  
Length: 59.125in.  
Wing Area: 225sqin.  
A/W: 24.22oz  
Wing Loading: 152oz/sqft  
CG: 25% (between 1st & 2nd ribs) (CG: 40% of L.C. root)  
Stagger: 10.5in. (between 1st & 2nd ribs)  
Motor:  
Motor: 27160 3x10Bhp  
Main Aircraft:  
Control Throws:  
Ailerons: 30° UP & DOWN (40% wing span), 12° UP & DOWN (50% span)  
Elevators: 20° UP & DOWN (40% wing span), 30° UP & DOWN (50% span)  
Make them 40% UP & DOWN unless otherwise specified.  
Print only those parts please unless a 3D model is provided. If you would like to see more models, visit my website: [www.sam-song.com](http://www.sam-song.com)

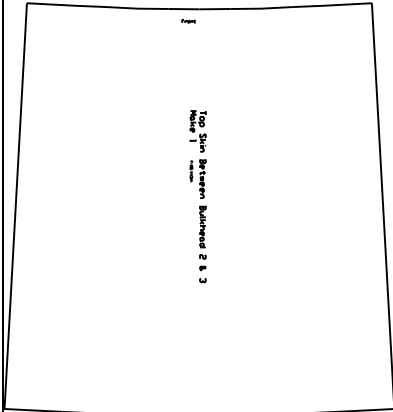
2010E 421 Copyright 2007 All Rights Reserved

Bottom Gun Between Bulkhead 6 & 8  
Motor 1



Bottom Gun Between Bulkhead 3 & 5  
Motor 1

Top Bulkhead 4 Doubler  
Motor 1

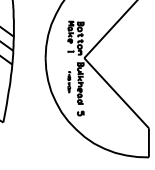
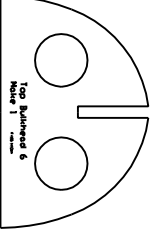


Top Gun Between Bulkhead 2 & 3  
Motor 1

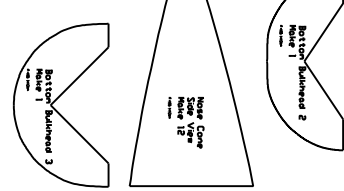
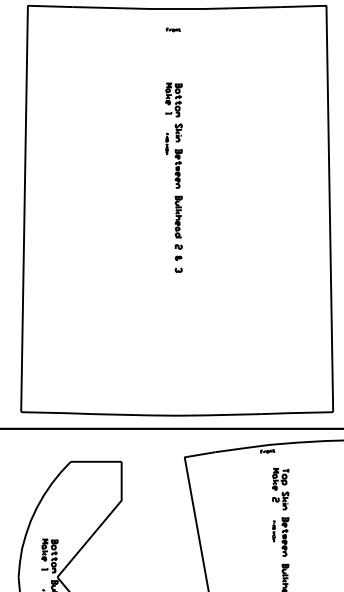
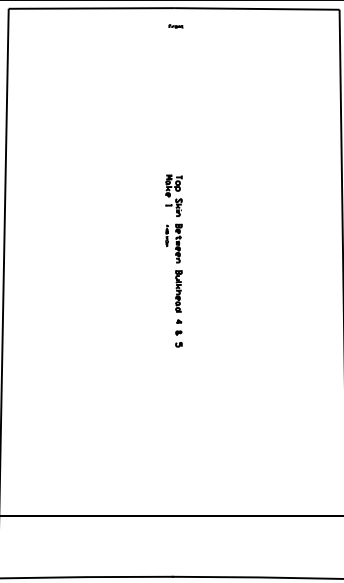
Top Bulkhead 4  
Motor 1

Top Gun Between Bulkhead 7 & 8  
Motor 2

Motor Cone  
Motor 1



Lurletech A  
Motor 1



Top Bulkhead 8  
Motor 1

Bottom Bulkhead 9  
Motor 1

Stabilizer  
Motor 1

Top Bulkhead  
Motor 1

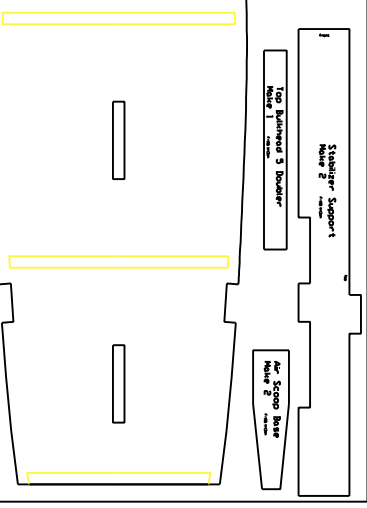
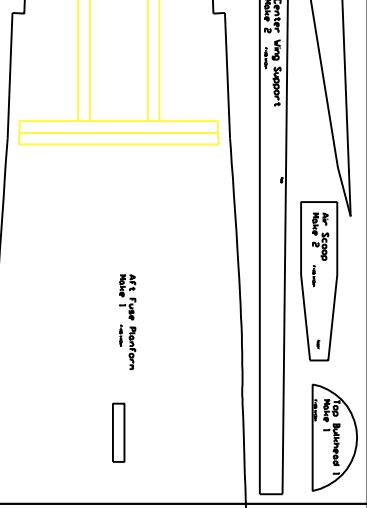
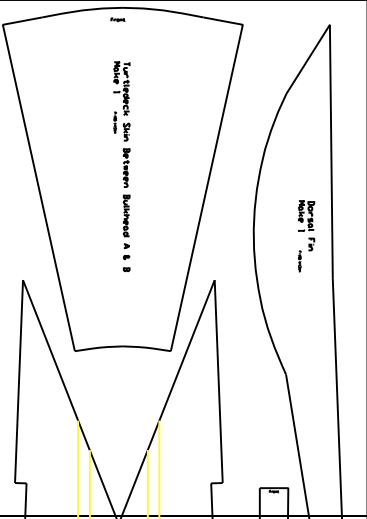
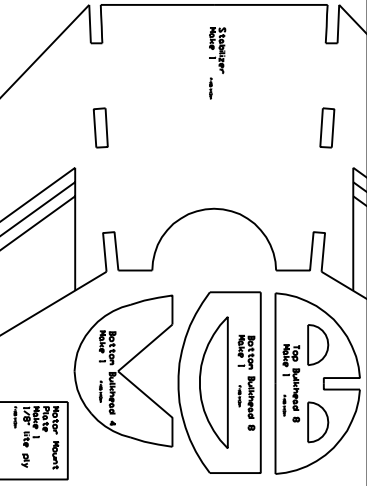
Mid-Scop  
Motor 2

Top Bulkhead  
Motor 1

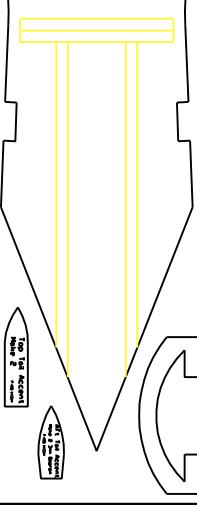
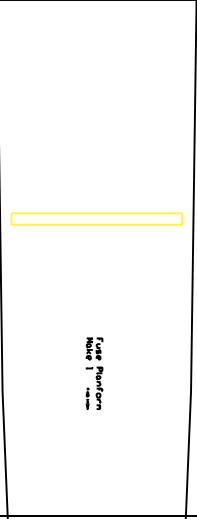
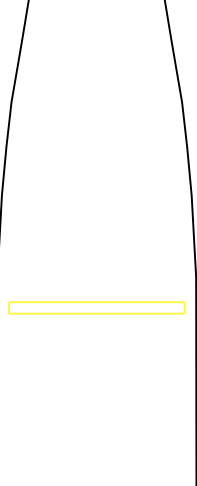
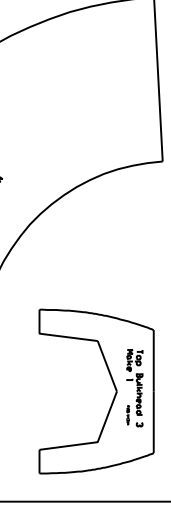
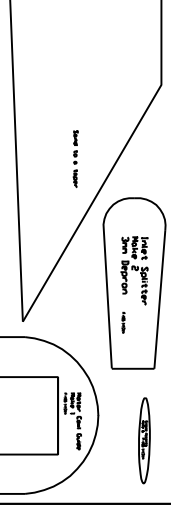
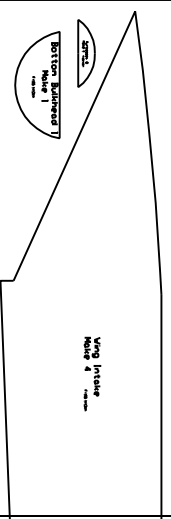
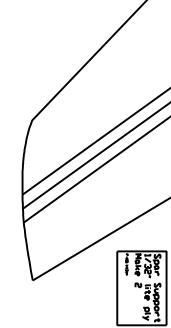
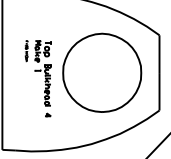
Stabilizer Support  
Motor 2

Top Bulkhead 3 Doubler  
Motor 1

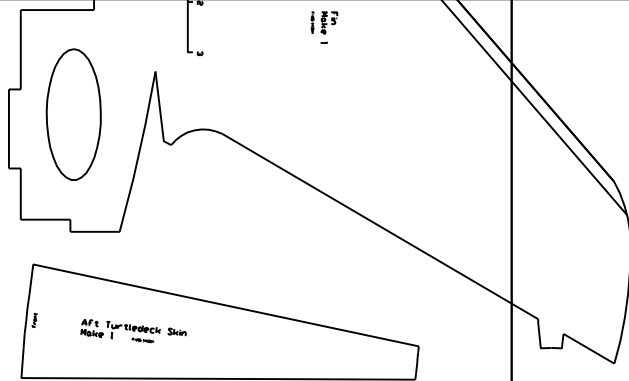
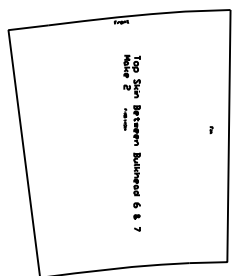
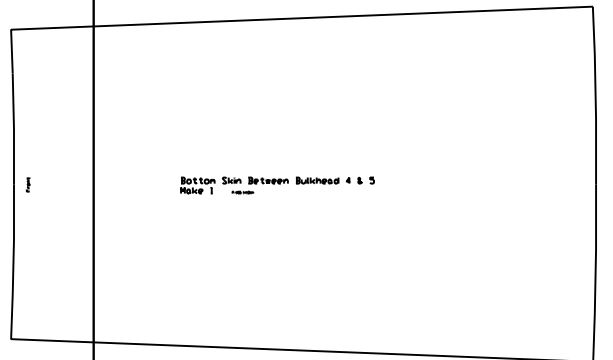
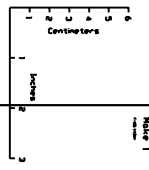
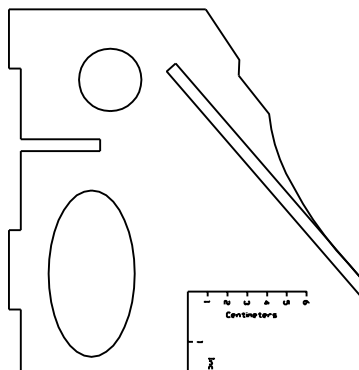
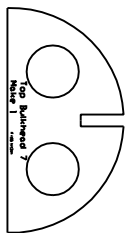
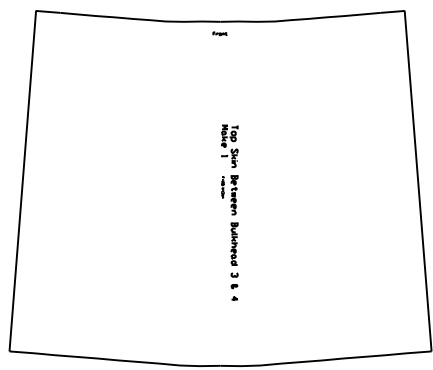
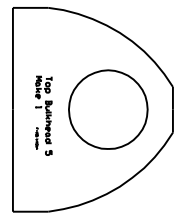
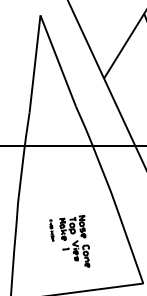
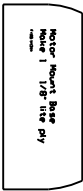
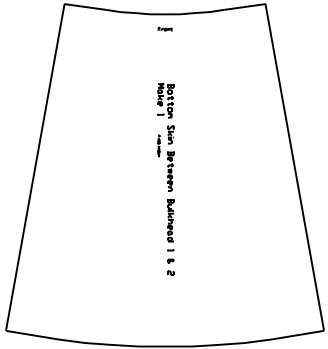
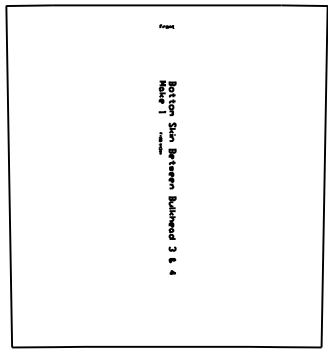
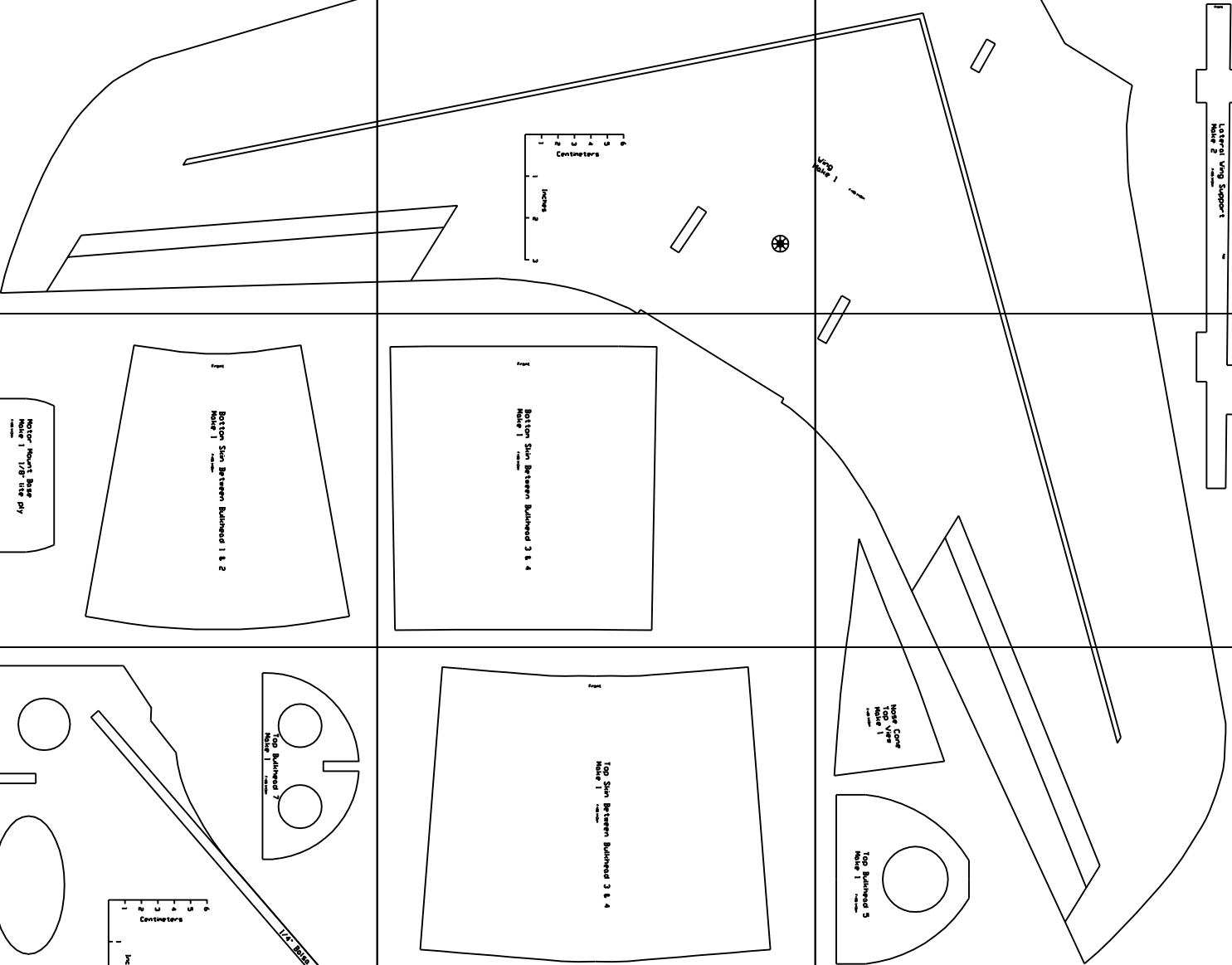
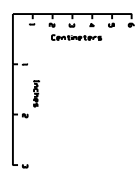
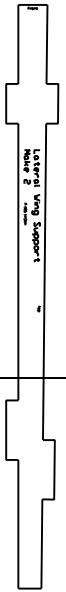
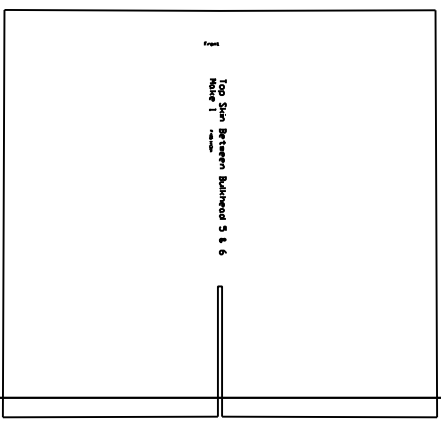
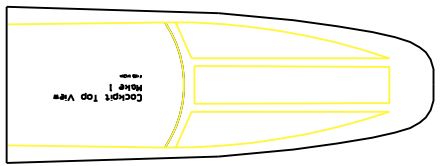
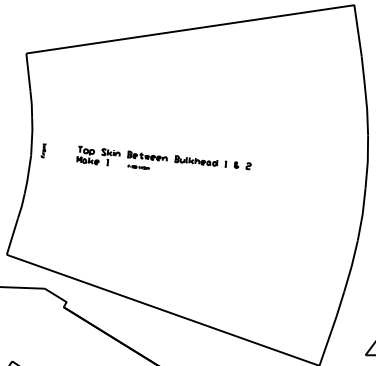
Mid-Scop Base  
Motor 2

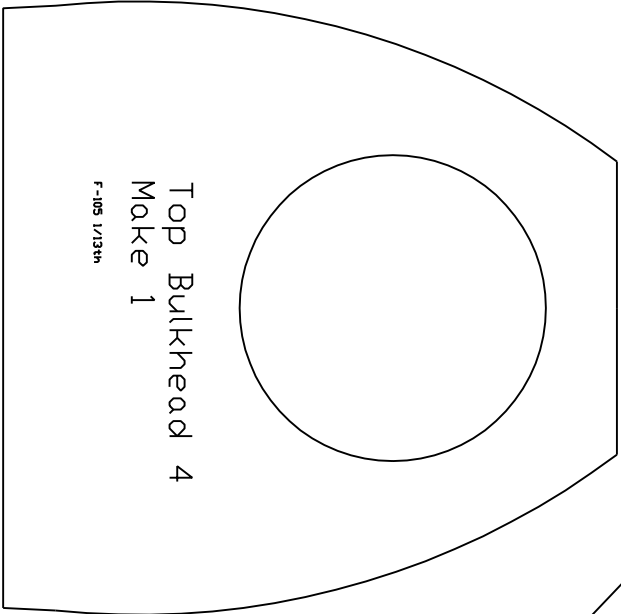


Motor Mount  
Motor 1  
Motor 2  
Motor 1  
Motor 2  
Motor 1  
Motor 2  
Motor 1  
Motor 2

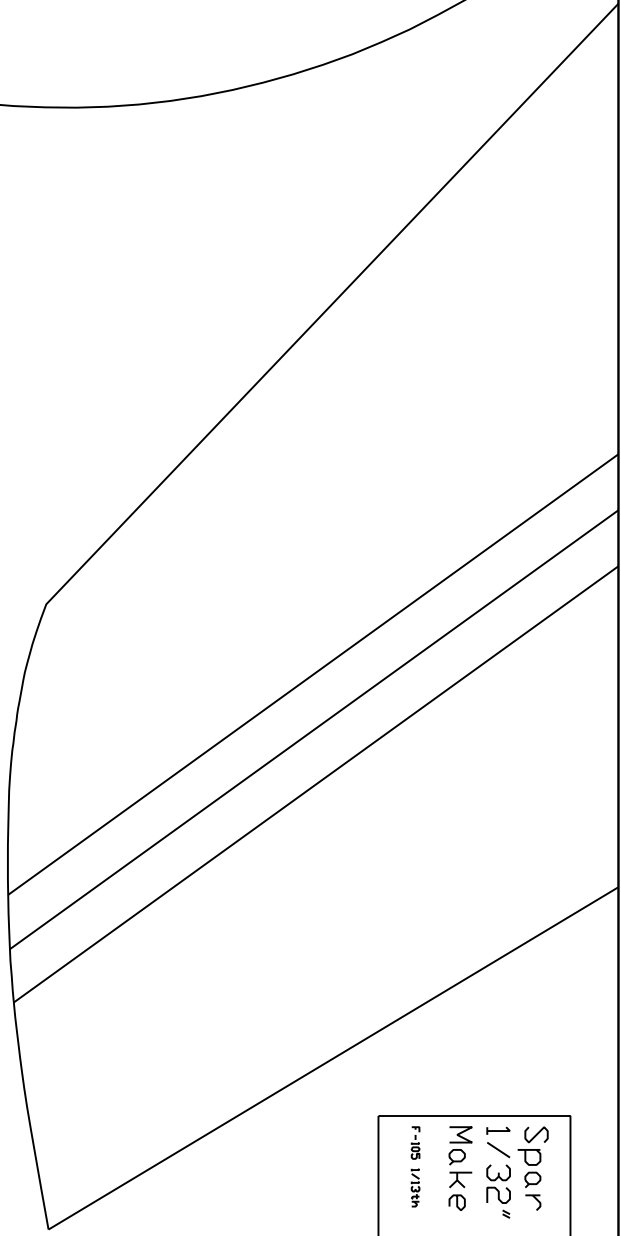


Front Wing  
Make 2

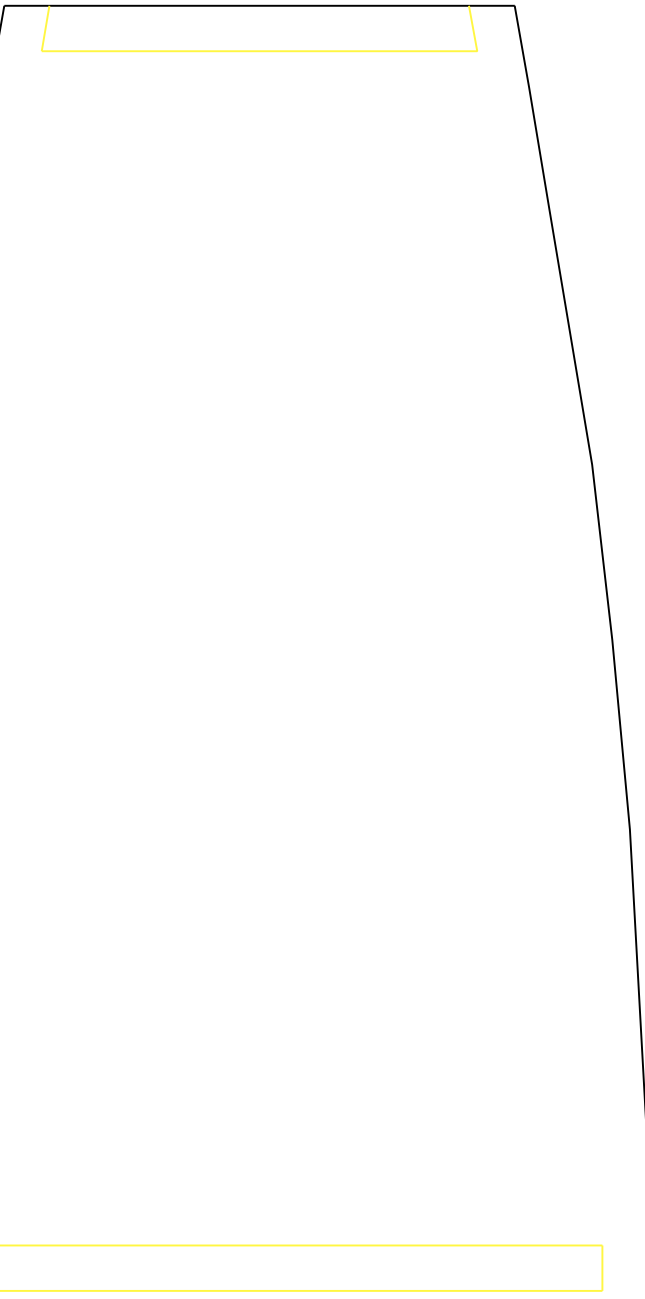




Top Bulkhead 4  
Make 1  
F-105 1/13th



Spar Support  
1/32" lite ply  
Make 2  
F-105 1/13th



Turtleneck B  
Make 1 1/13th

Bottom Bulkhead 1  
Make 1  
F-105 1/13th

Wing Intake  
Make 4  
F-105 1/13th

Fuse Platform  
Make 1  
F-105 1/13th



Inlet Splitter  
Make 2  
3mm Depron

F-105 1/13th

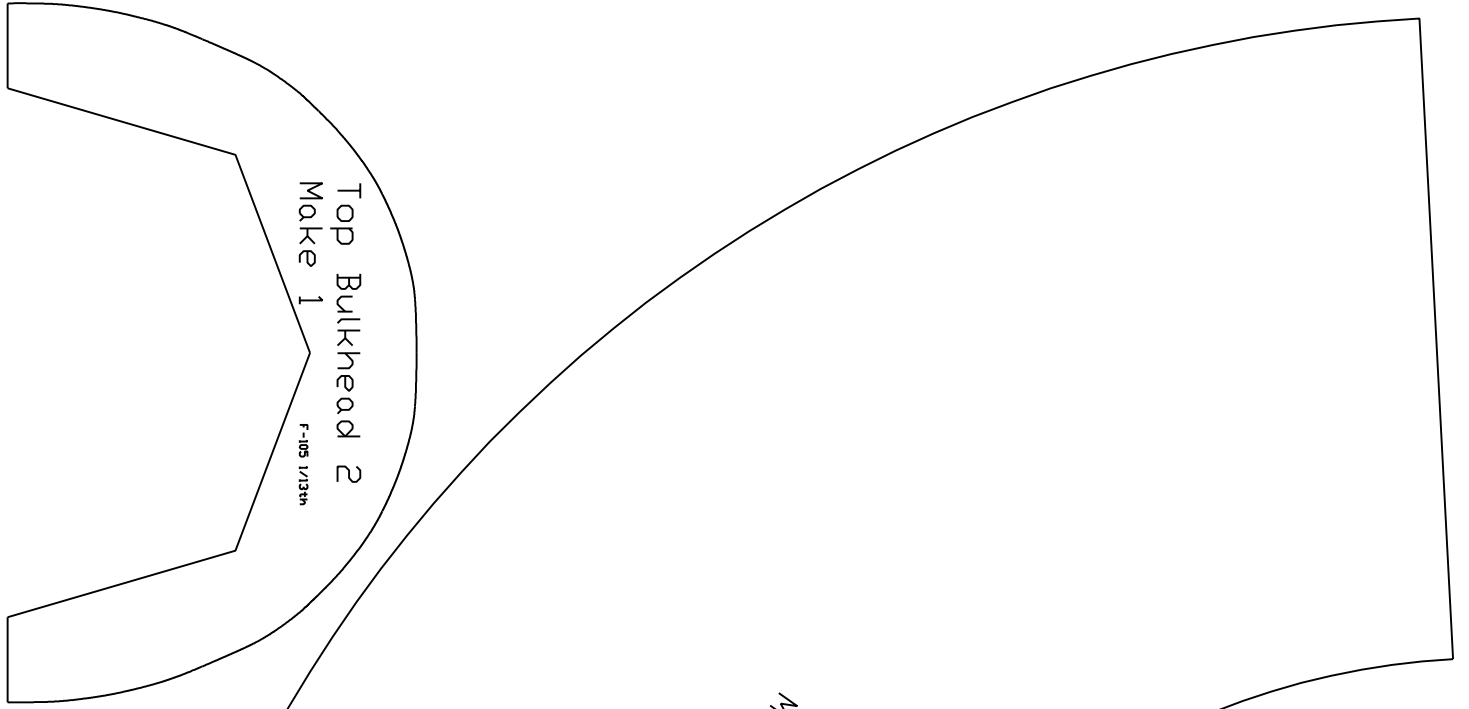
Engine Accents  
Make 6 F-105 1/13th

Sand to a taper

Motor Cowl Guide  
Make 1  
F-105 1/13th

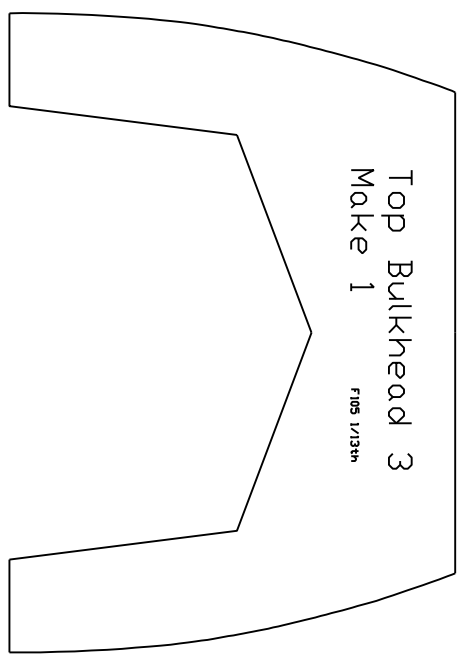
Aft Tail Accent  
Make 2 3mm Depron  
F-105 1/13th

Top Tail Accent  
Make 2  
F-105 1/13th



Top Bulkhead 2  
Make 1  
F-105 1/13th

Motor Cone  
Make 1  
F-105 1/13th



Top Bulkhead 3  
Make 1  
F-105 1/13th

Stabilizer  
Make 1

F-105 1/13th

Top Bulkhead 8  
Make 1

F-105 1/13th

Bottom Bulkhead 8  
Make 1

F-105 1/13th

Bottom Bulkhead 4  
Make 1

F-105 1/13th

Motor Mount  
Plate  
Make 1  
1/8" lite ply

F-105 1/13th



Front

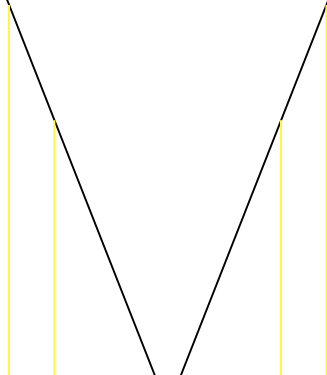
Turtleneck Skin Between Bulkhead A & B  
Make 1

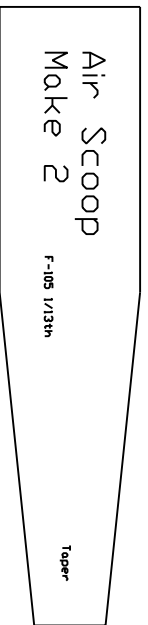
F-105 1/13th

Dorsal Fin  
Make 1

F-105 1/13th

Front





Top

Center Wing Support  
Make 2  
F-105 1/13th



Aft Fuse Platform  
Make 1  
F-105 1/13th



Front

Stabilizer Support  
Make 2

F-105 1/13th

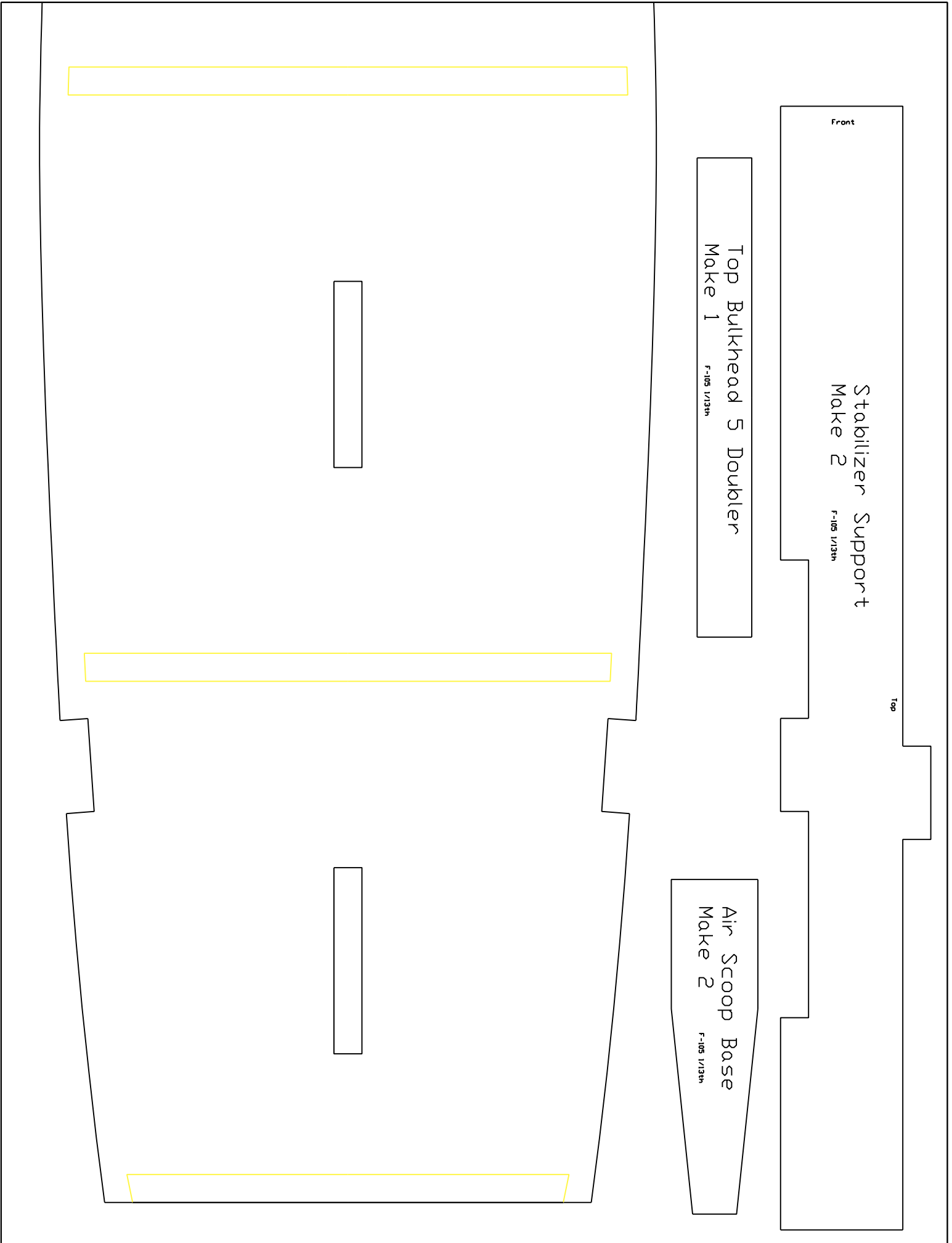
Top

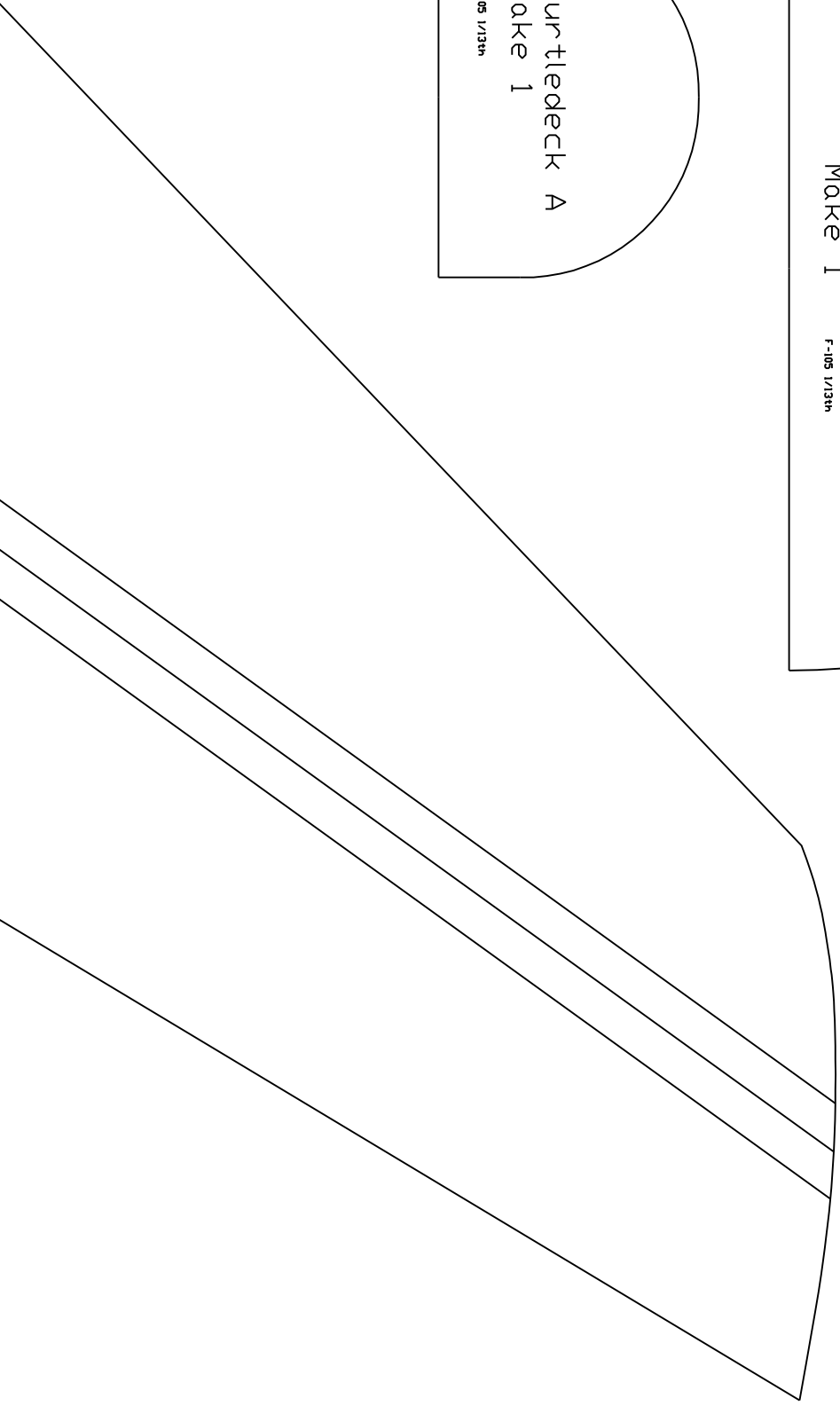
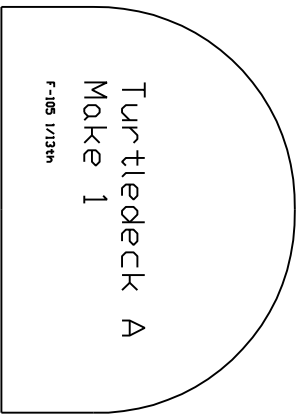
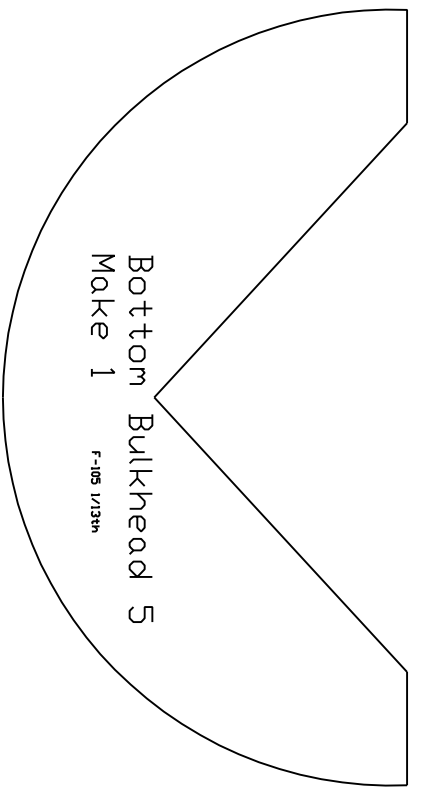
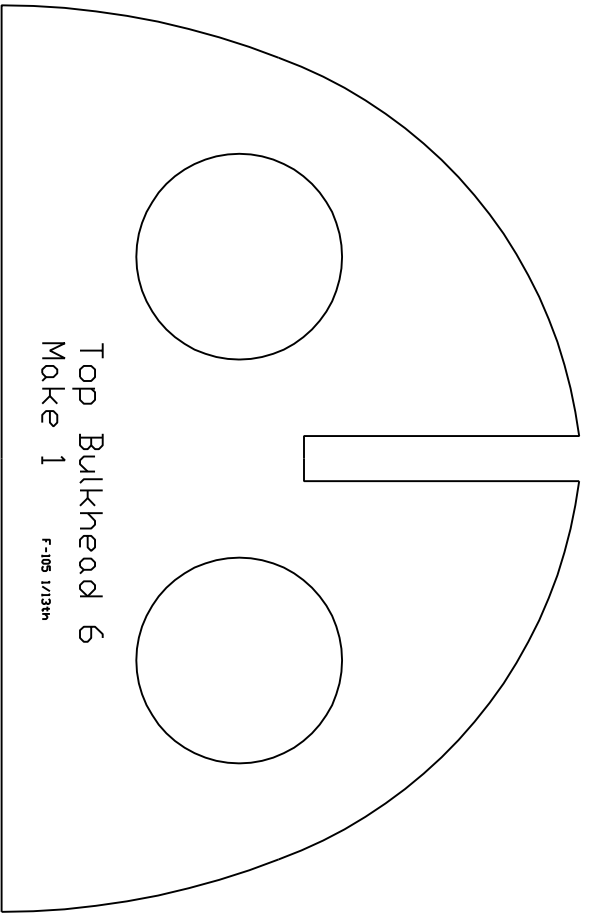
Top Bulkhead 5 Doubler  
Make 1

F-105 1/13th

Air Scoop Base  
Make 2

F-105 1/13th





Front

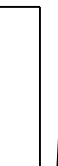
Tail Pipe  
Make 1

F-105 1/13th

Front

Top Skin Between Bulkhead 4 & 5  
Make 1

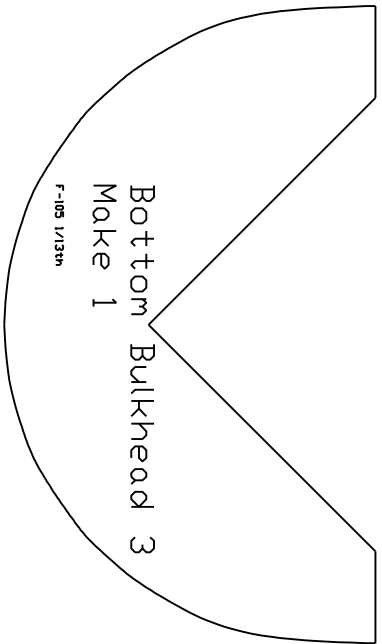
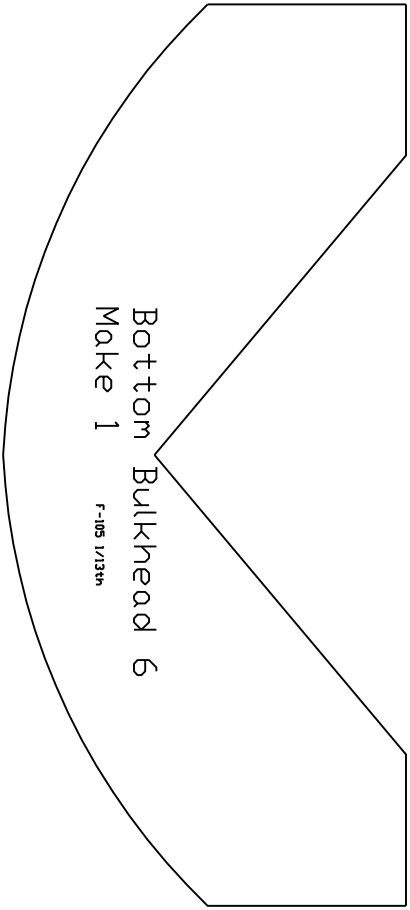
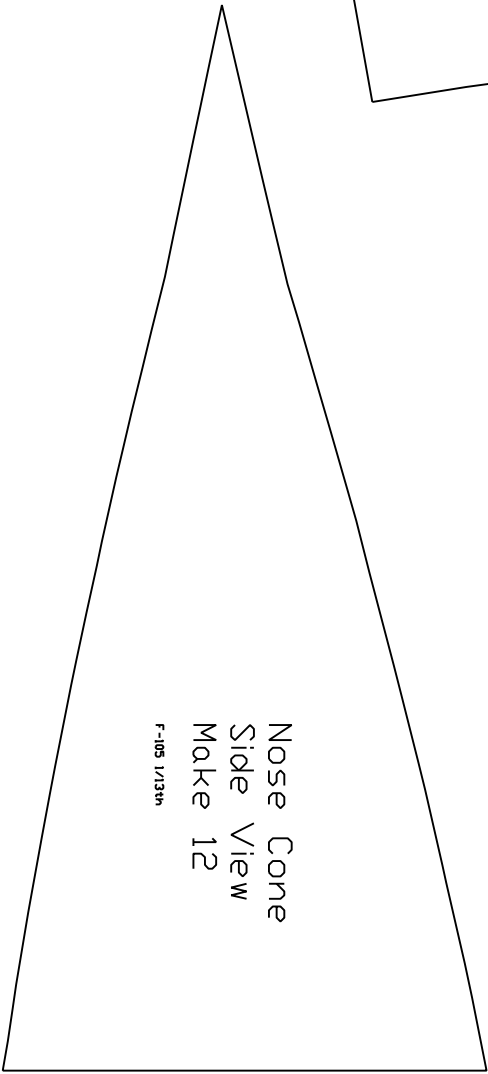
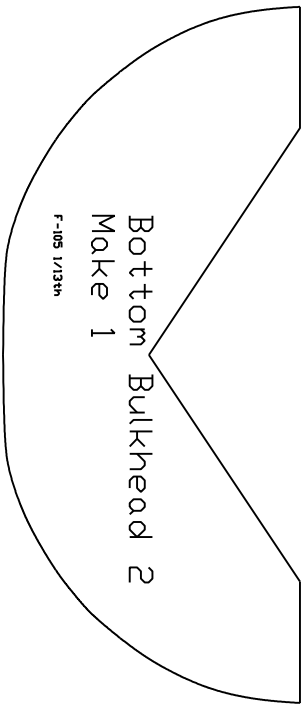
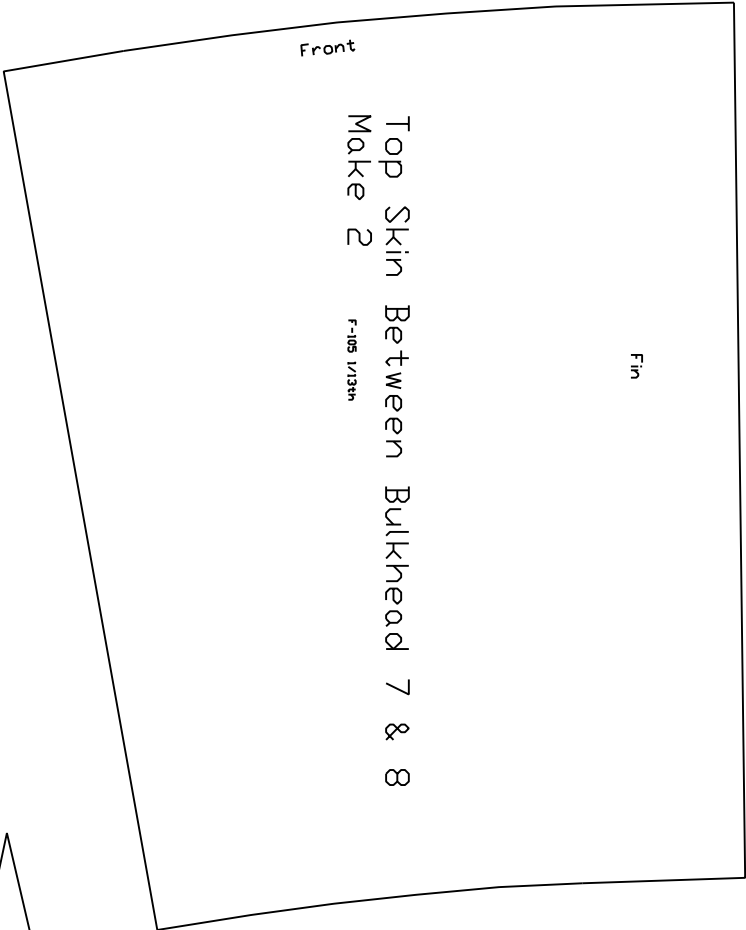
F-105 1/13th



Front

Bottom Skin Between Bulkhead 2 & 3  
Make 1

F-105 1/1344



Front

Bottom Skin Between Bulkhead 6 & 8  
Make 1 F-105 1/13th



Front

Bottom Skin Between Bulkhead 5 & 6  
Make 1

F-105 1/13th

Top Bulkhead 4 Doubler  
Make 1

F-105 1/13th

Front

Top Skin Between Bulkhead 2 & 3  
Make 1

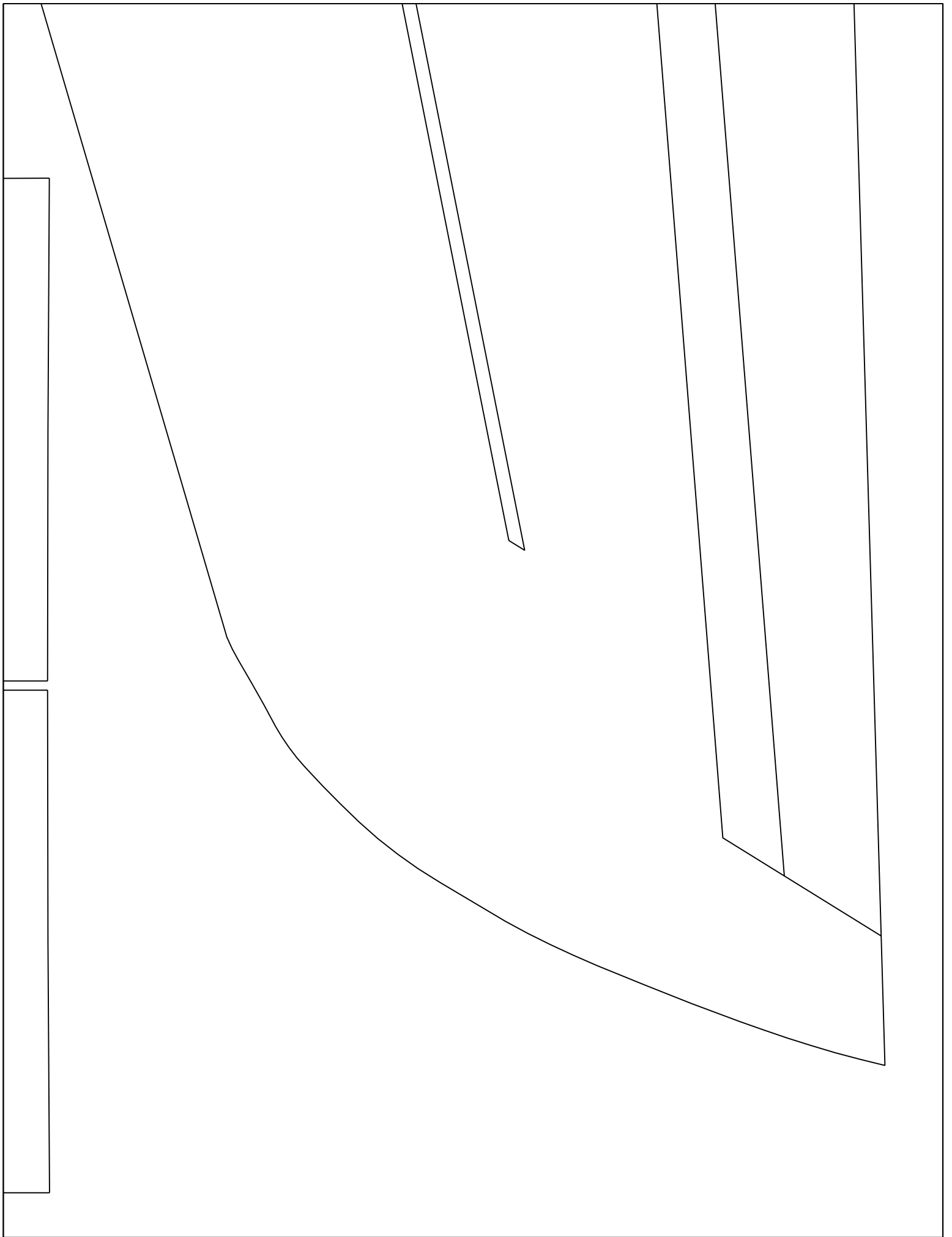
F-105 1/13th

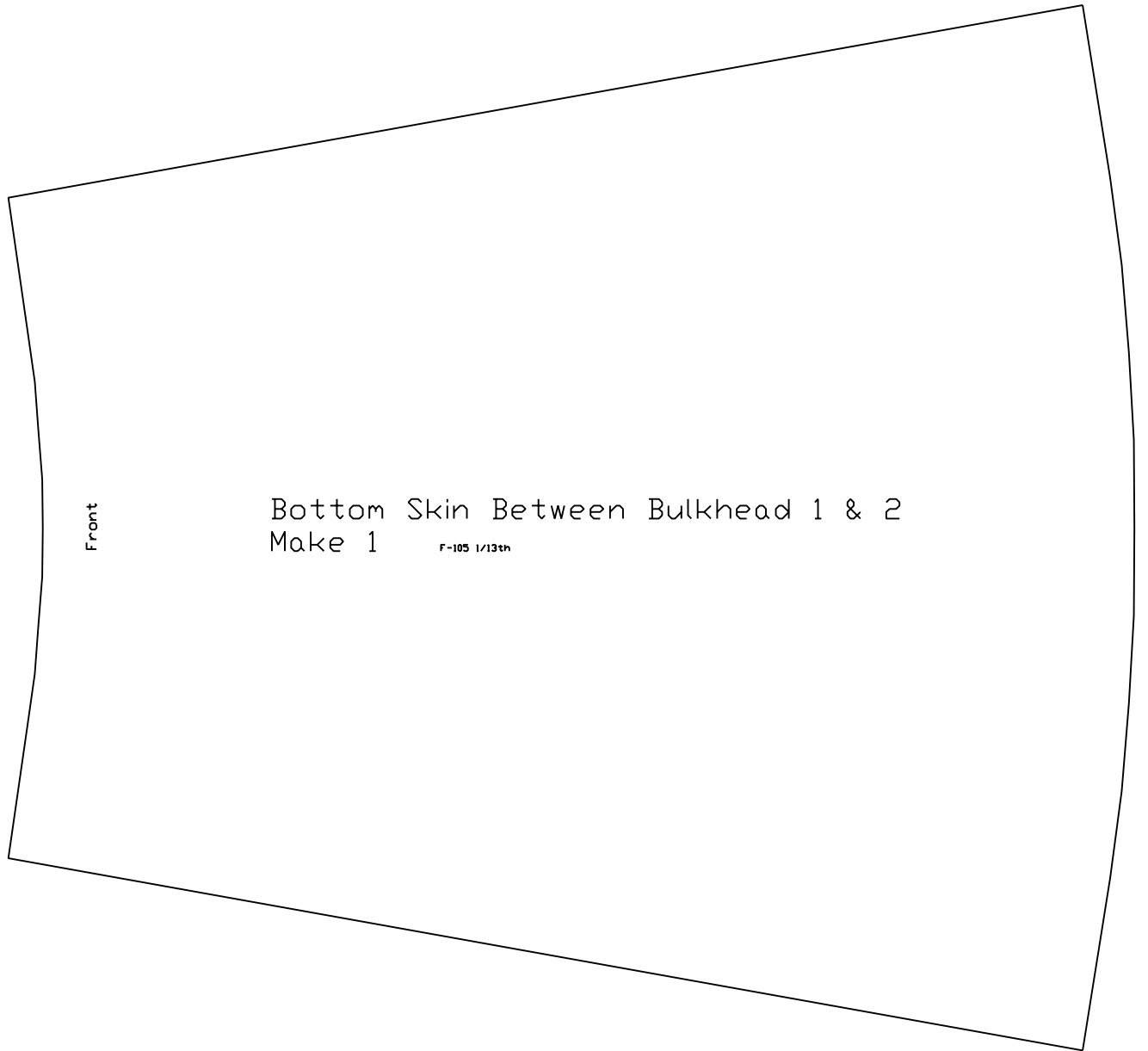
Front

Top Skin Between Bulkhead 5 & 6  
Make 1

F-105 1/13th



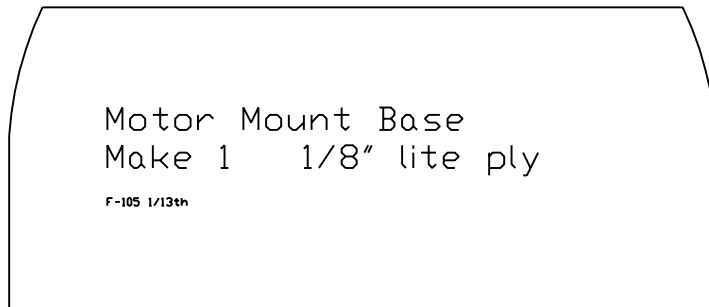




Front

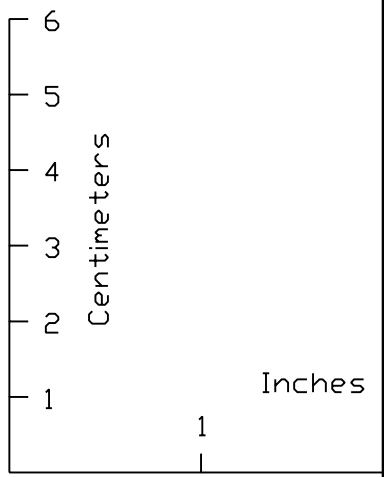
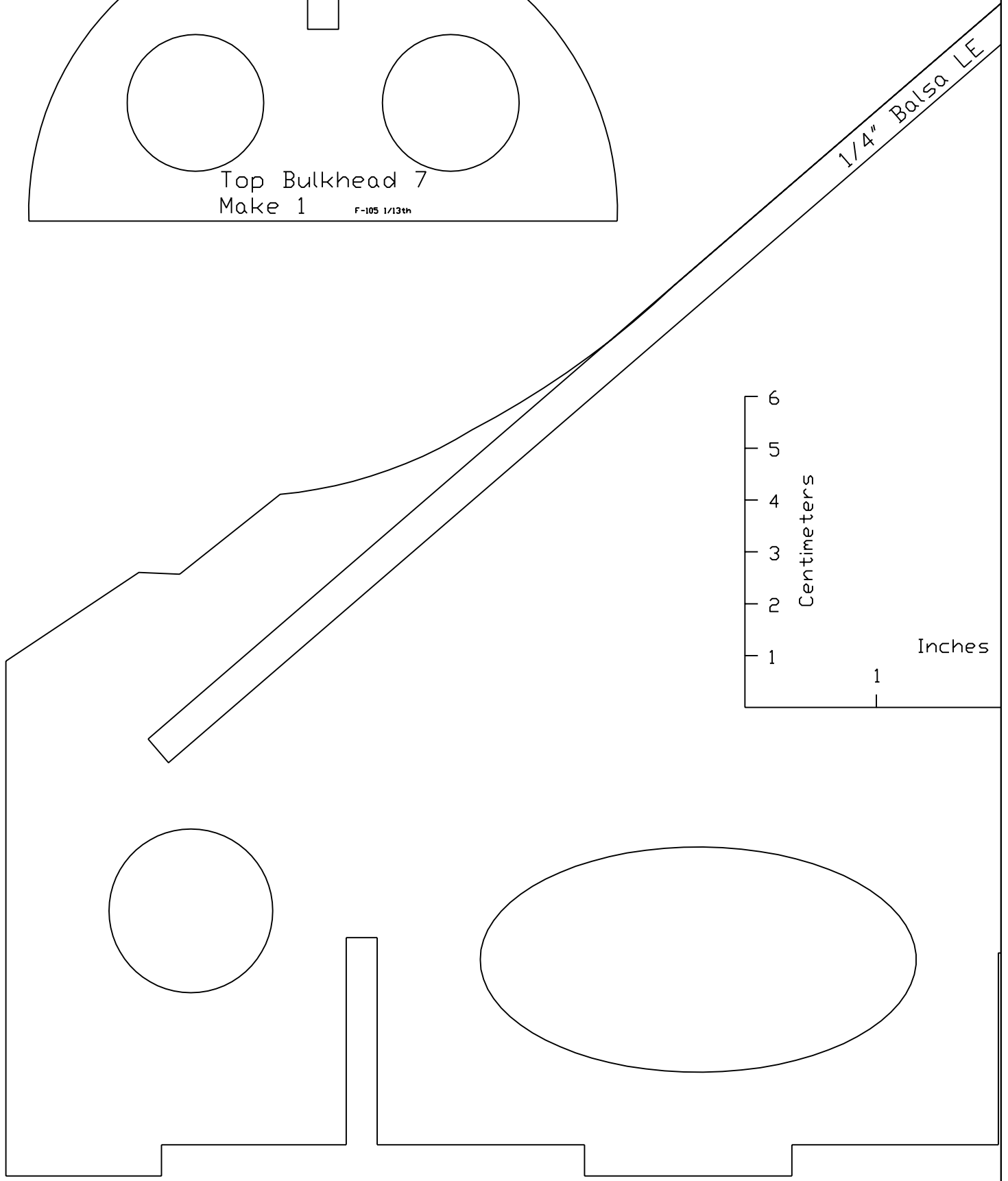
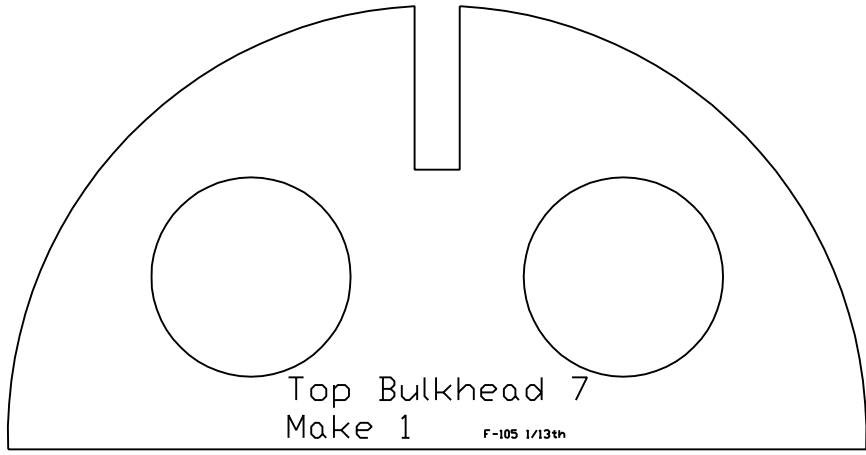
Bottom Skin Between Bulkhead 1 & 2  
Make 1

F-105 1/13th



Motor Mount Base  
Make 1 1/8" lite ply

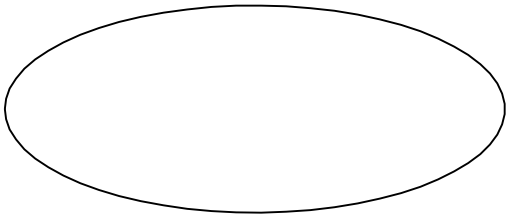
F-105 1/13th



Fin  
Make 1

F-105 1/13th

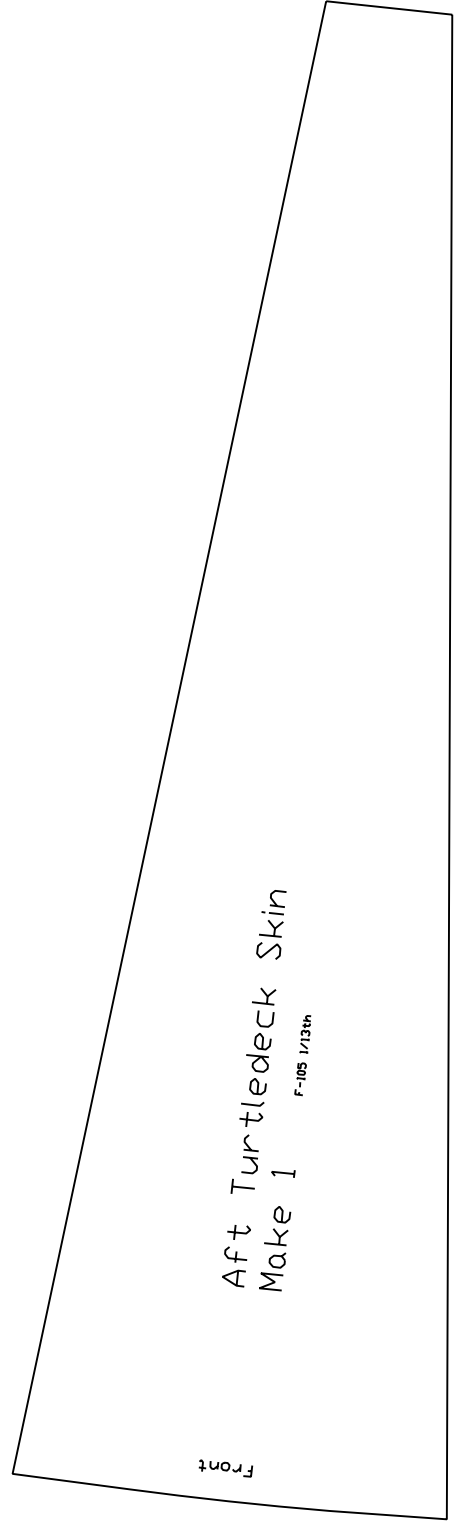
2 3

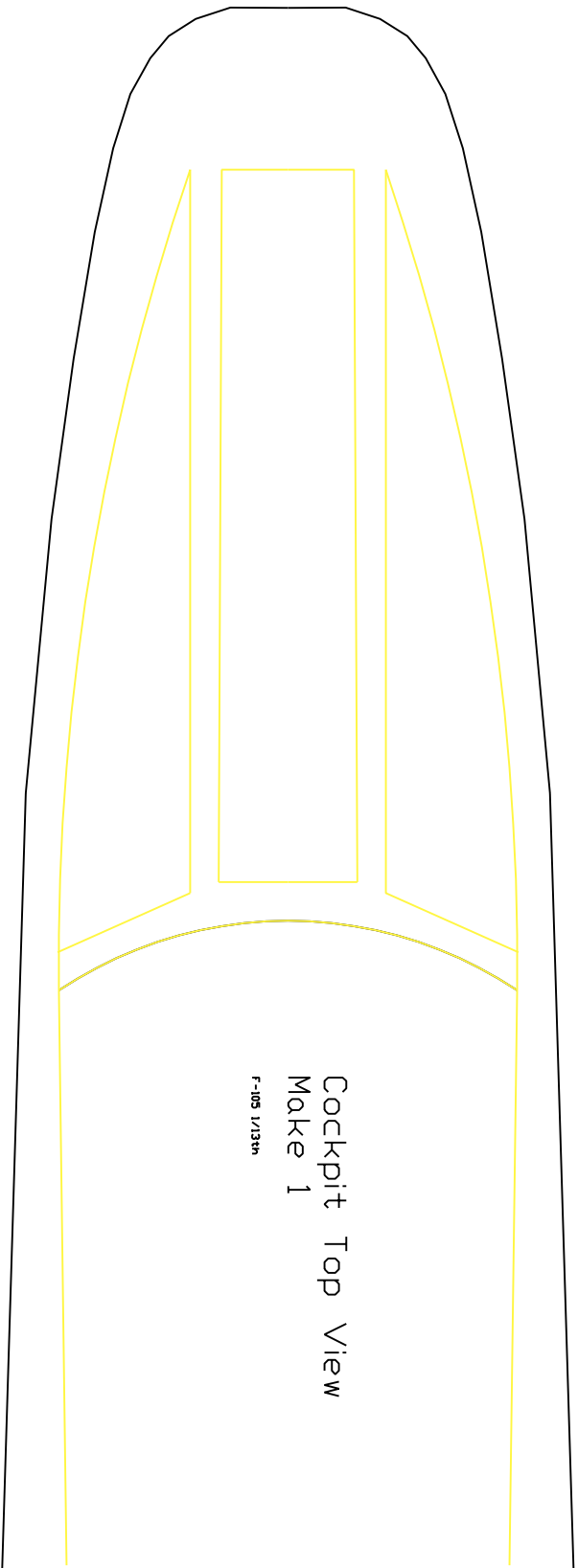


Aft Turtleneck Skin  
Make 1

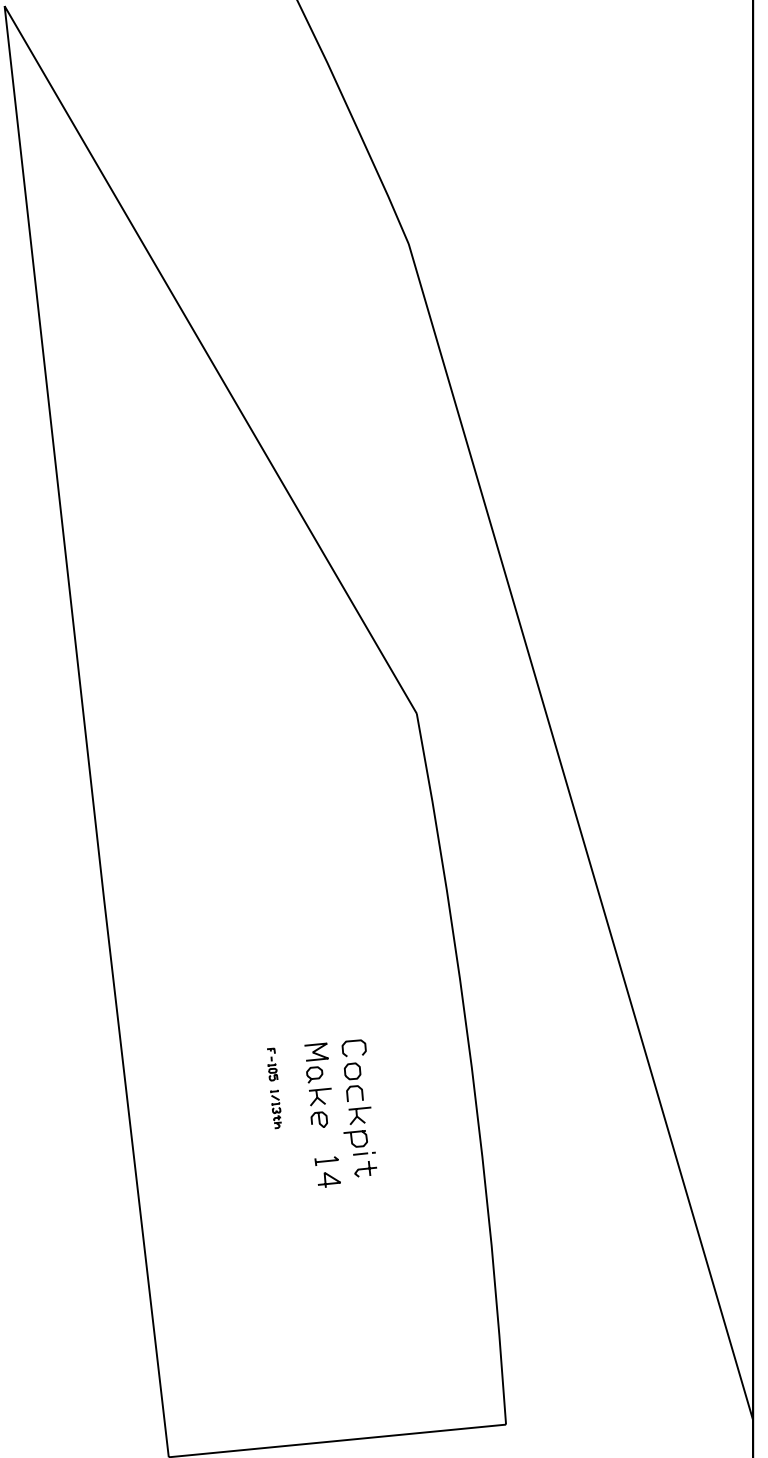
F-105 1/13th

Front



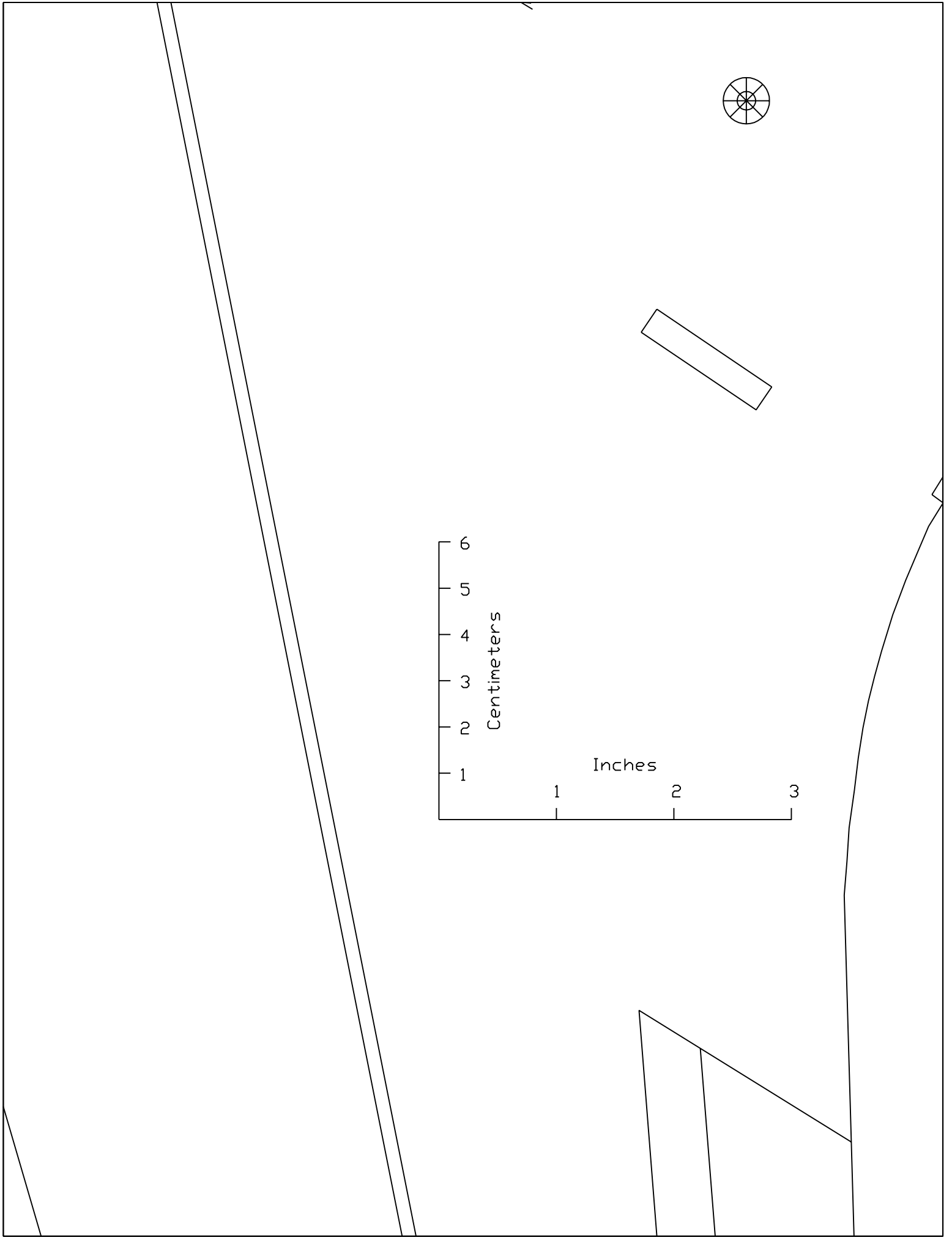


Cockpit Top View  
Make 1  
F-105 1/13th



Cockpit  
Make 14  
F-105 1/13th







Front

Bottom Skin Between Bulkhead 3 & 4  
Make 1

F-105 1/13th

Front

Top Skin Between Bulkhead 3 & 4  
Make 1

F-105 1/13th

Front

Fin

Top Skin Between Bulkhead 6 & 7  
Make 2

F-105 1/13th

Front

Front Wing  
Make 2

F-105 1/13th

Top Skin Between Bulkhead 1 & 2  
Make 1

F-105 1/13th

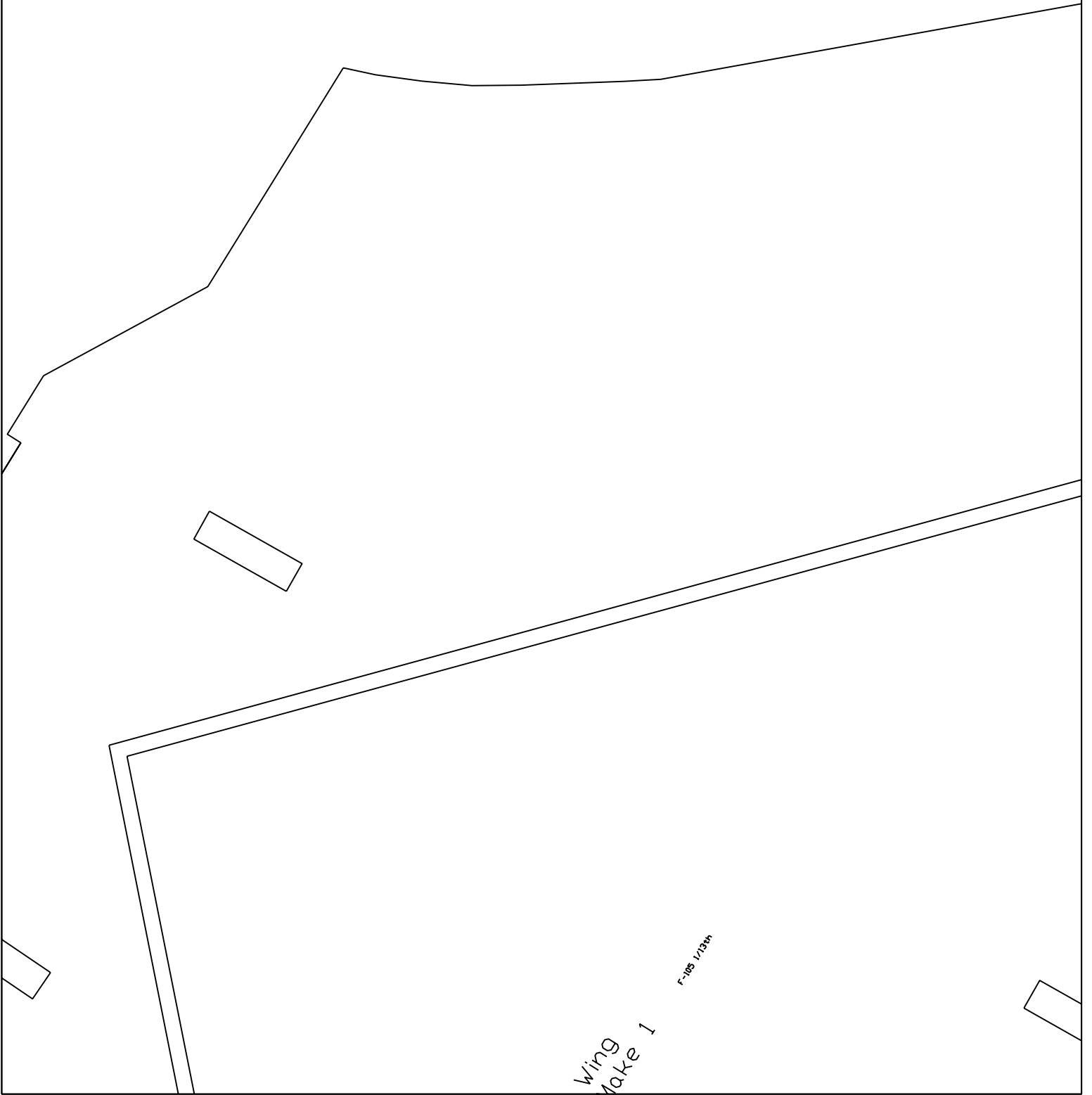
Front

Front

# Lateral Wing Support Make 2

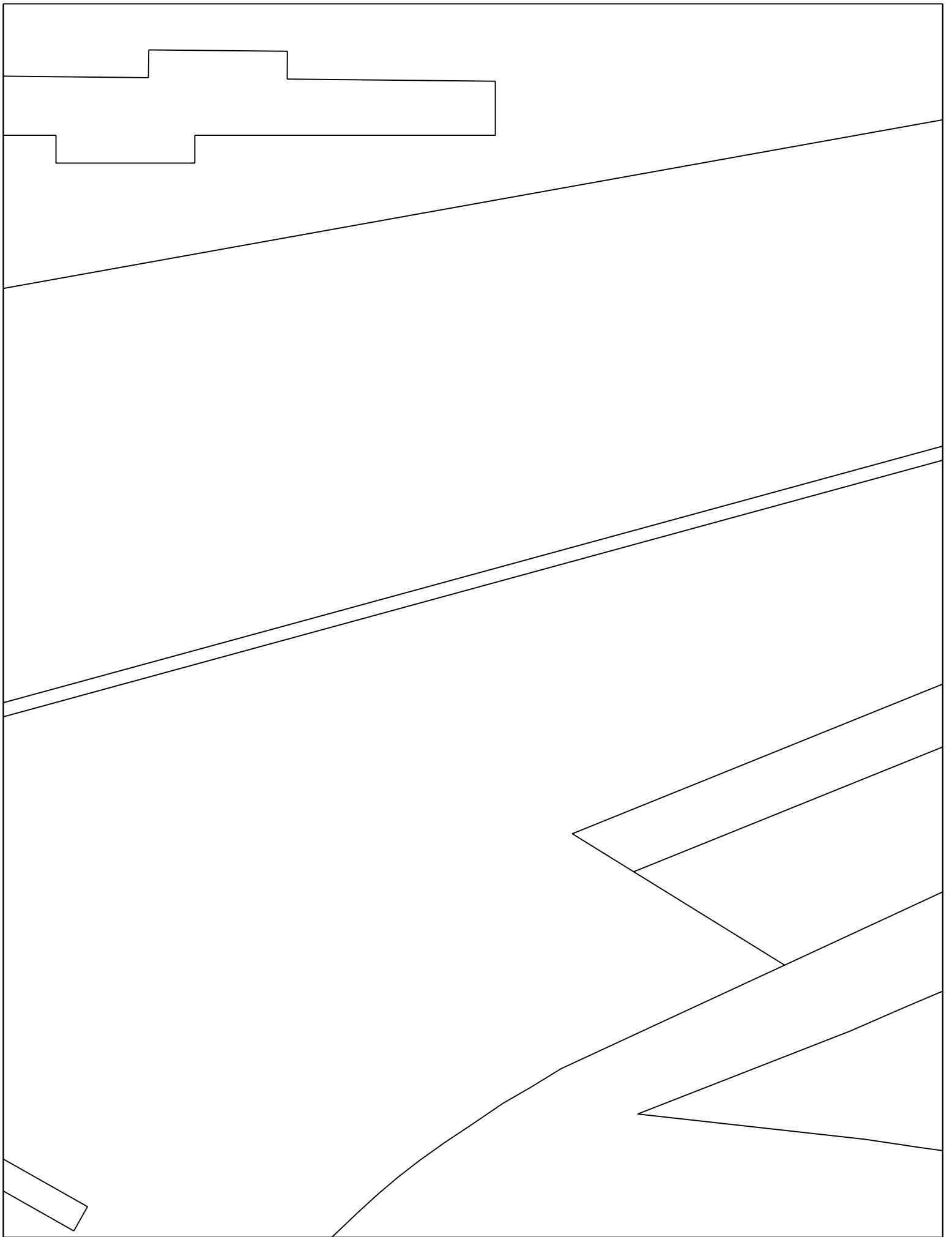
Top

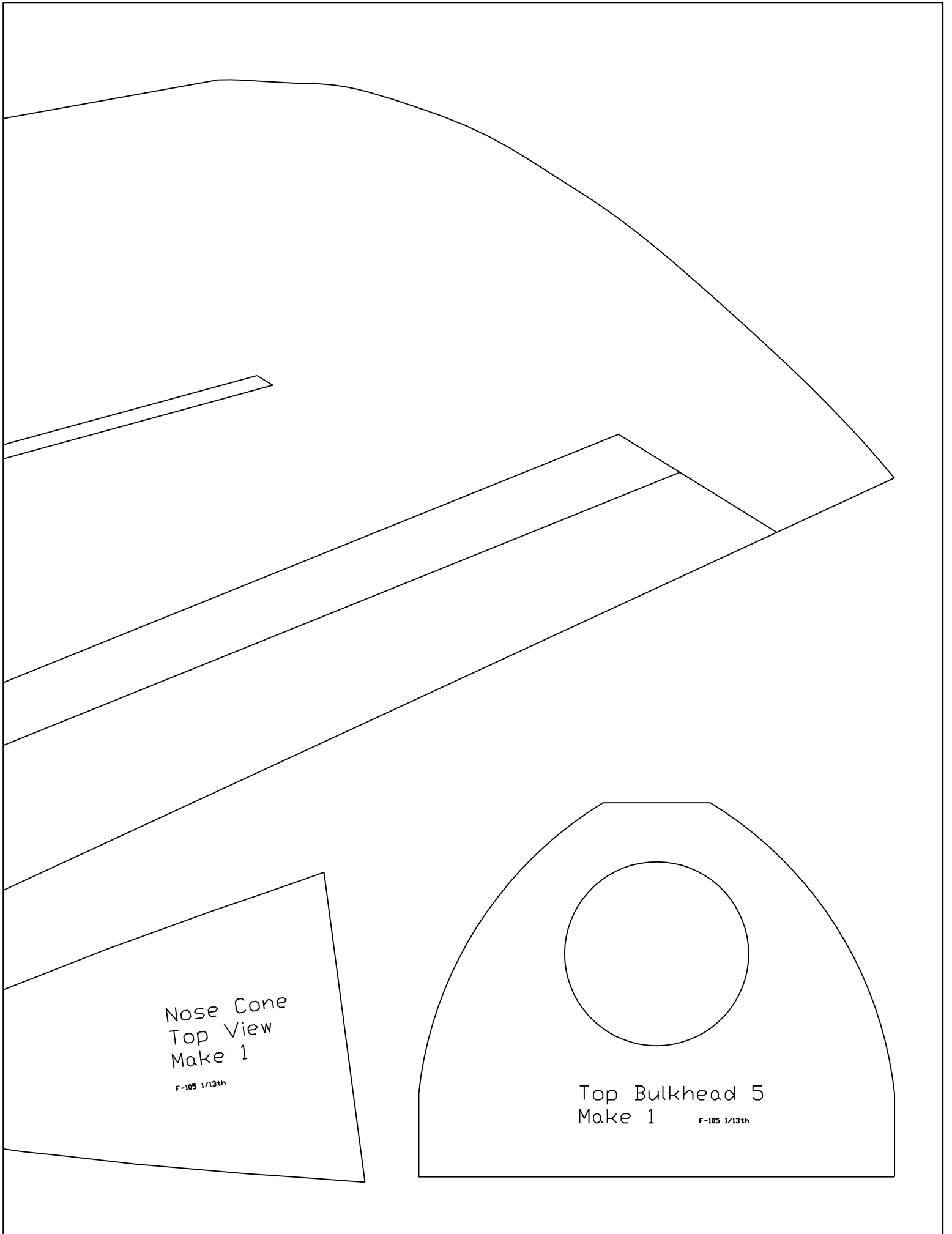
F-105 1/13th



Wing  
Make 1

F-105 1/13th





Nose Cone  
Top View  
Make 1

F-105 1/13th

Top Bulkhead 5  
Make 1

F-105 1/13th



Bottom Skin Between Bulkhead 4 & 5

Make 1

F-105 1/13th