

WING FILLET

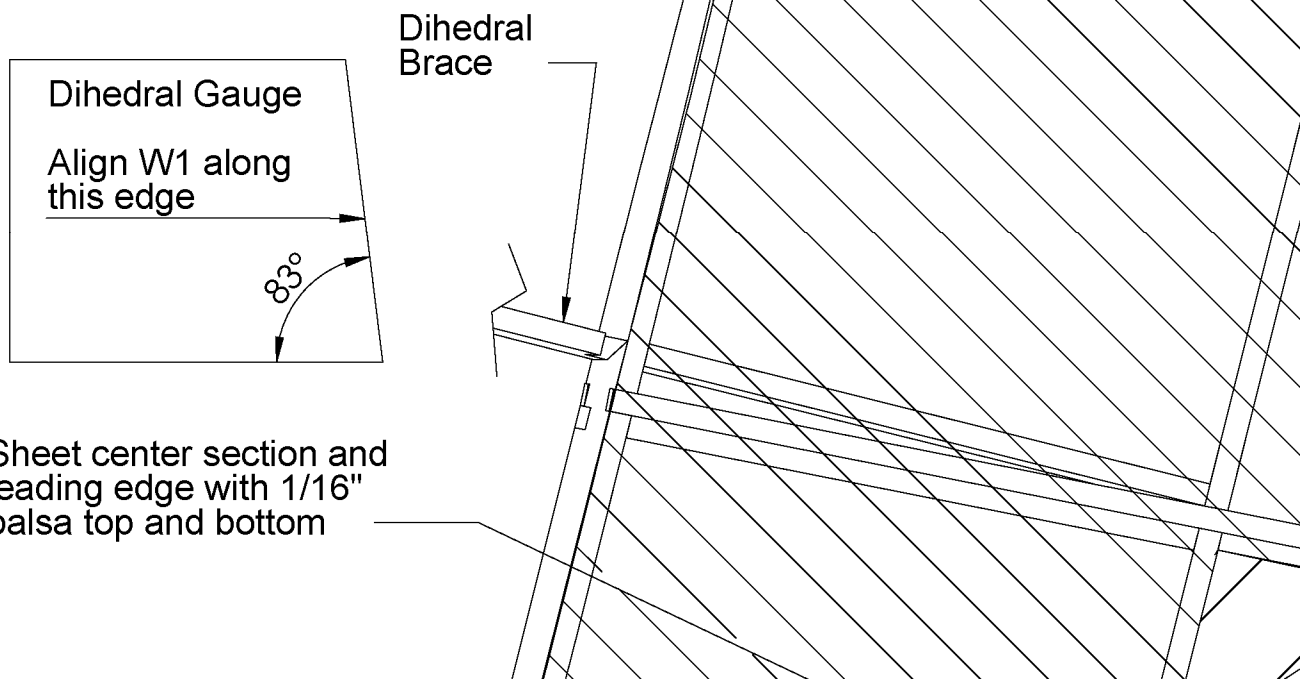
Use the templates to the right to make the fillet parts:

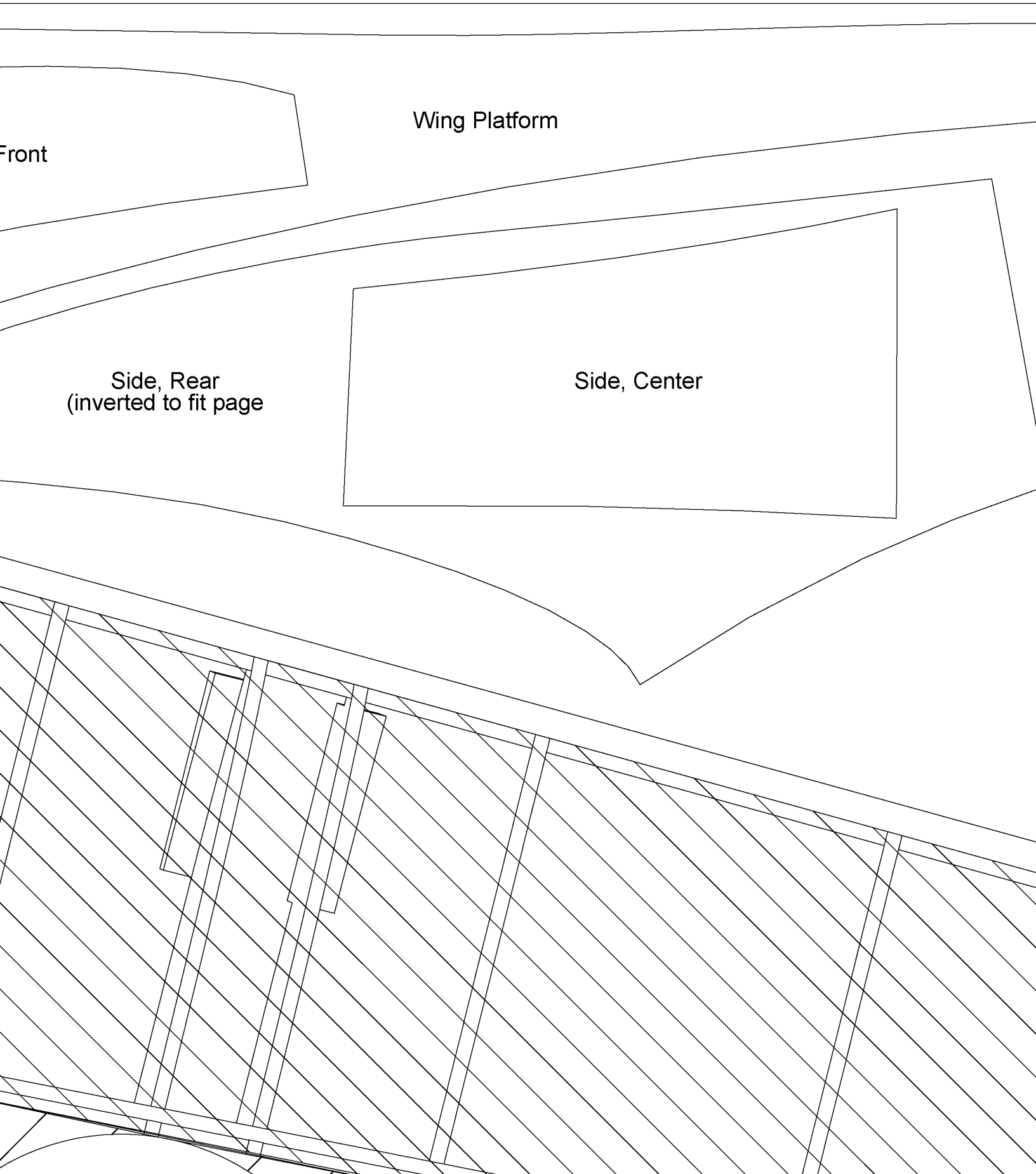
1. Wing Platform--cut from 1/16" balsa or 1/32" ply.
 1. Fit Platform to upper wing surface
 2. Glue the Platform to the bottom edge of the Wing Saddle WS.
2. Bottom--cut from 1/8" balsa
 1. Epoxy to back edge of Wing Platform and fuselage.
3. Side Panels--cut from 1/16" balsa or thick cardstock.
 1. Wet each Panel and gently shape to fit.
 2. Work from the Rear to the Front.
 3. Glue to Wing Platform and fuselage.
 4. Add bracing from scrap balsa as needed.

DIHEDRAL

The dihedral is set by installing center wing rib W1 at the angle provided by the Dihedral Gauge.

Completed wing assembly should measure 3.5"/88mm from board to bottom of W10 when wings are level and supported by W1.





Front

Wing Platform

Side, Rear
(inverted to fit page)

Side, Center

1/4" soft balsa Leading Edge

1/8" x 3/16" balsa or basswood
upper and lower Mainspars with
1/8" balsa Shear Webs

WT 2x

S7

W10

A3

W9

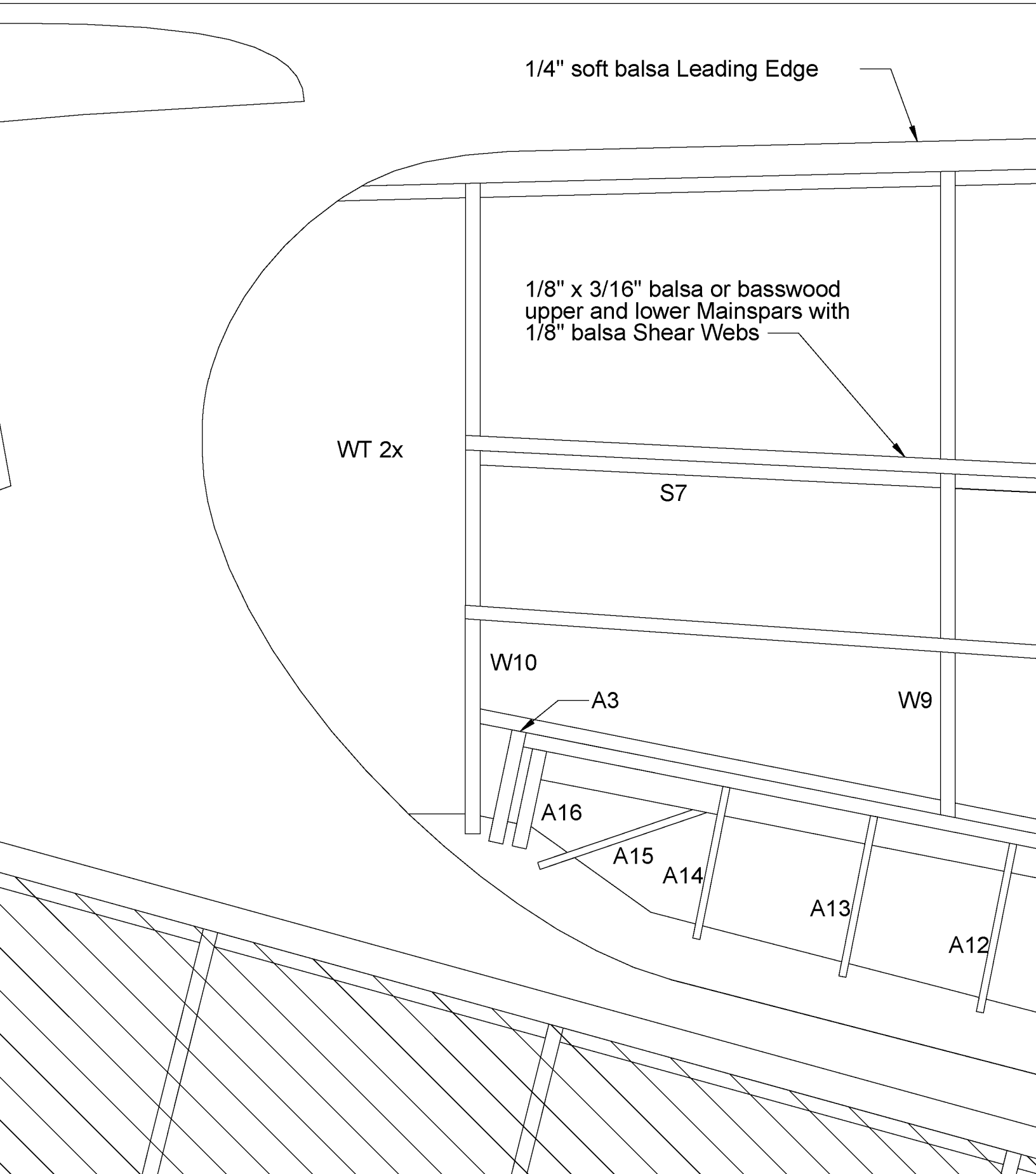
A16

A15

A14

A13

A12



LE

Aileron Servo may be mounted in this bay. Use scrap wood for door and frame.

S6

S5

S4

S3

Servo

1/8" square balsa stringers 2x

W8

W7

W6

A2

A4

A11

A10

A9

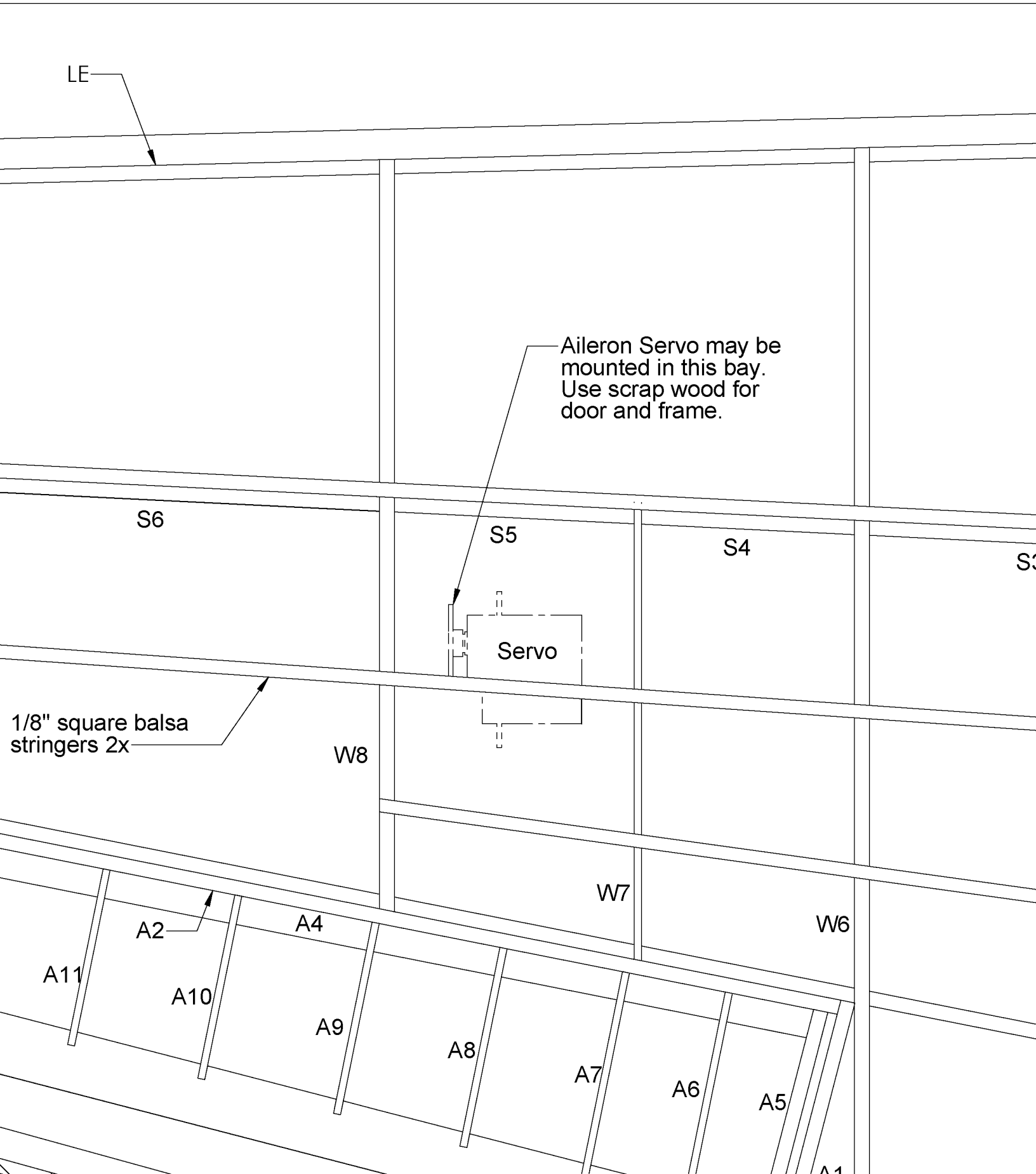
A8

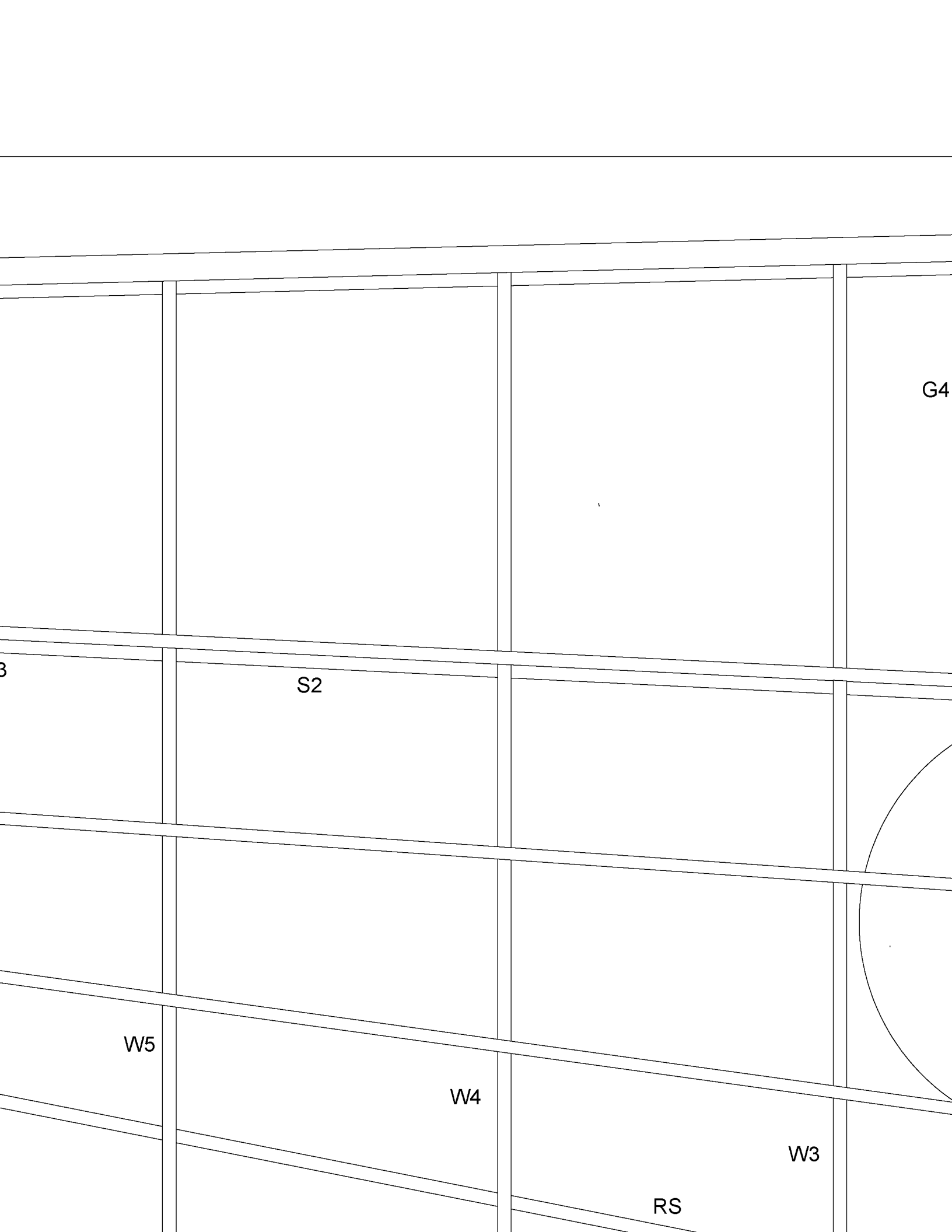
A7

A6

A5

A1





Make Wing Pin from 3/16" Dowel

Reinforce this area
with scrap wood to
support Wing Pin

2x

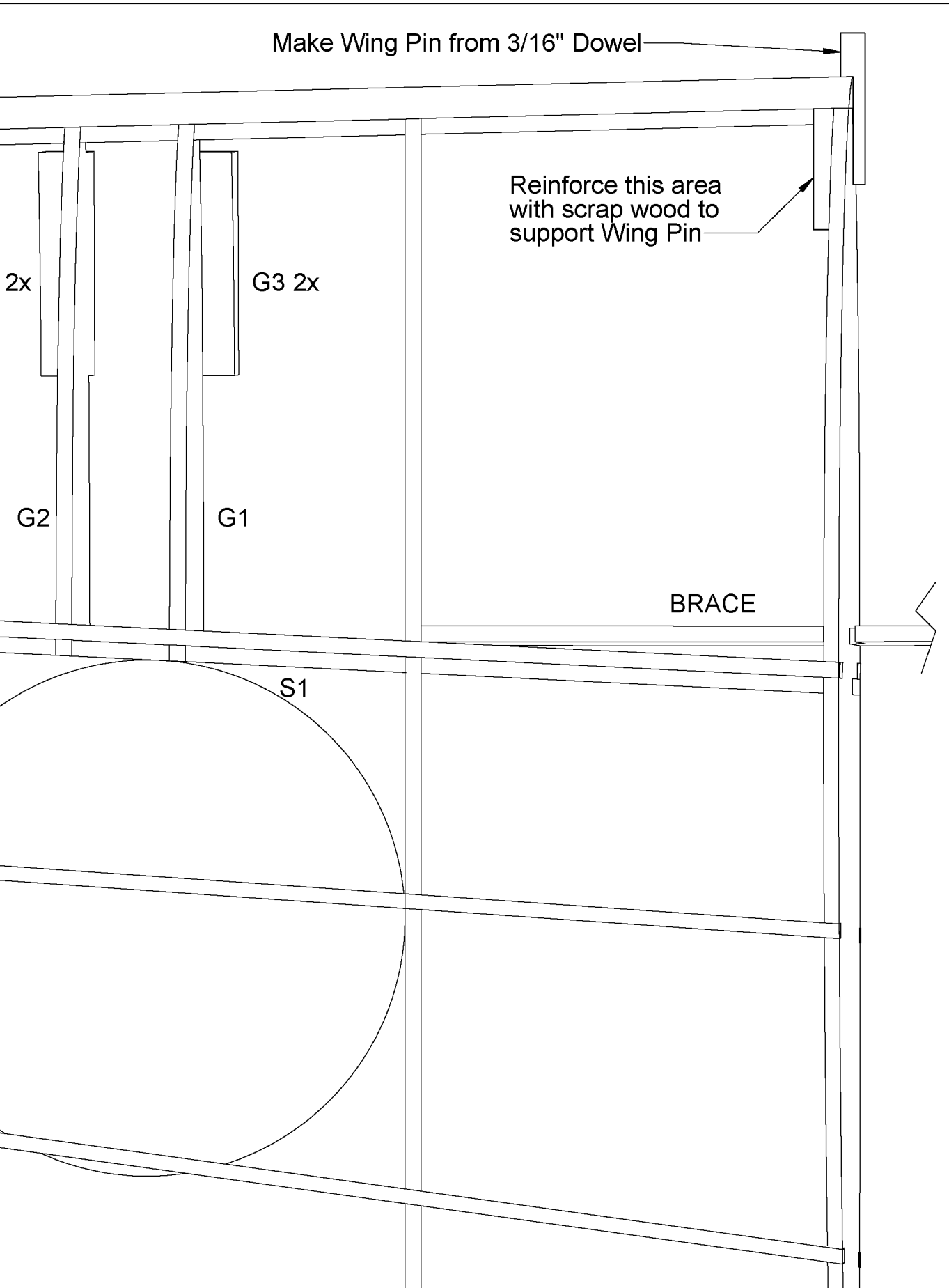
G3 2x

G2

G1

BRACE

S1



Extend sheeting to this area on underside only with 1/16" balsa to create wheel opening

4

3

2

1

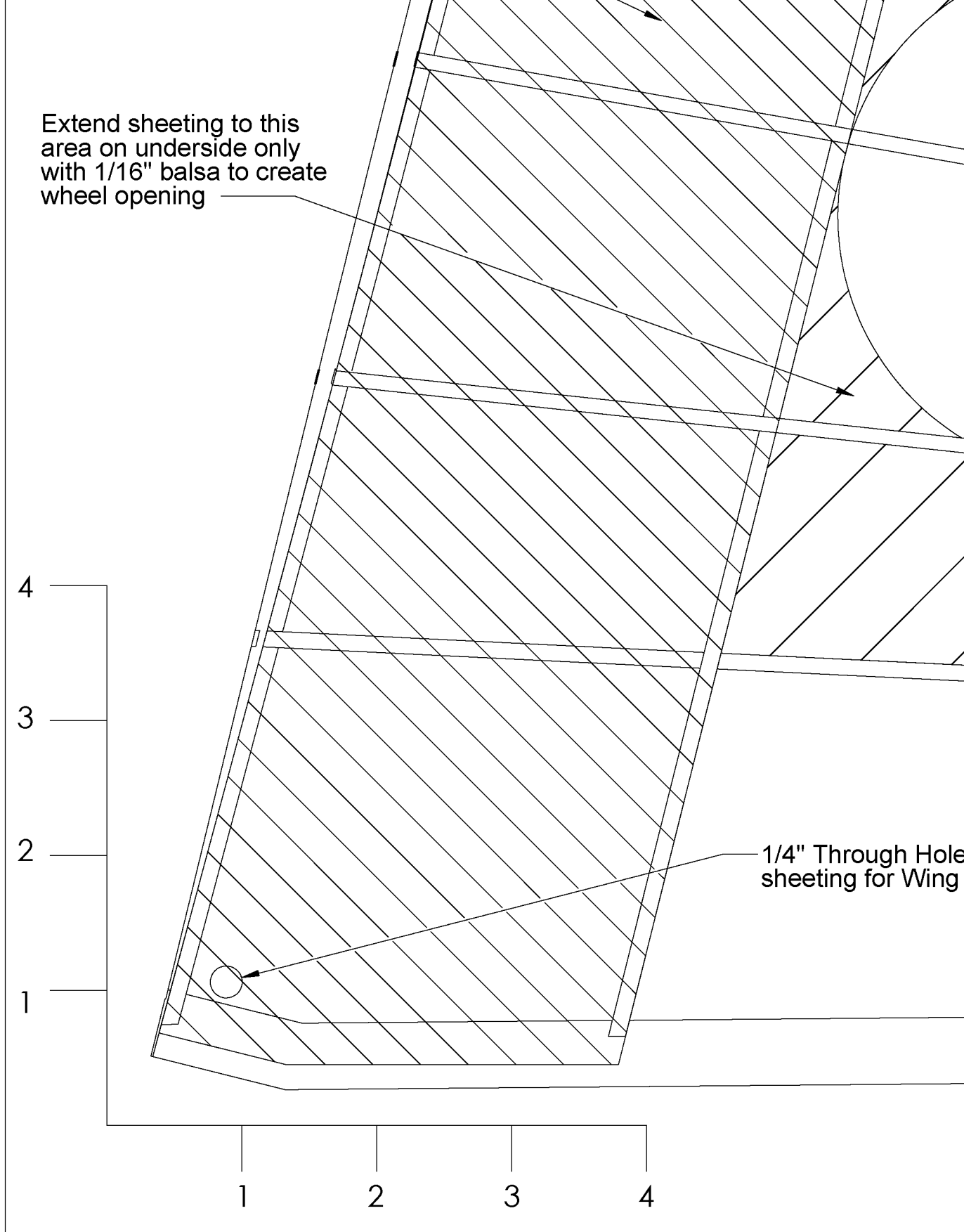
1/4" Through Hole sheeting for Wing

1

2

3

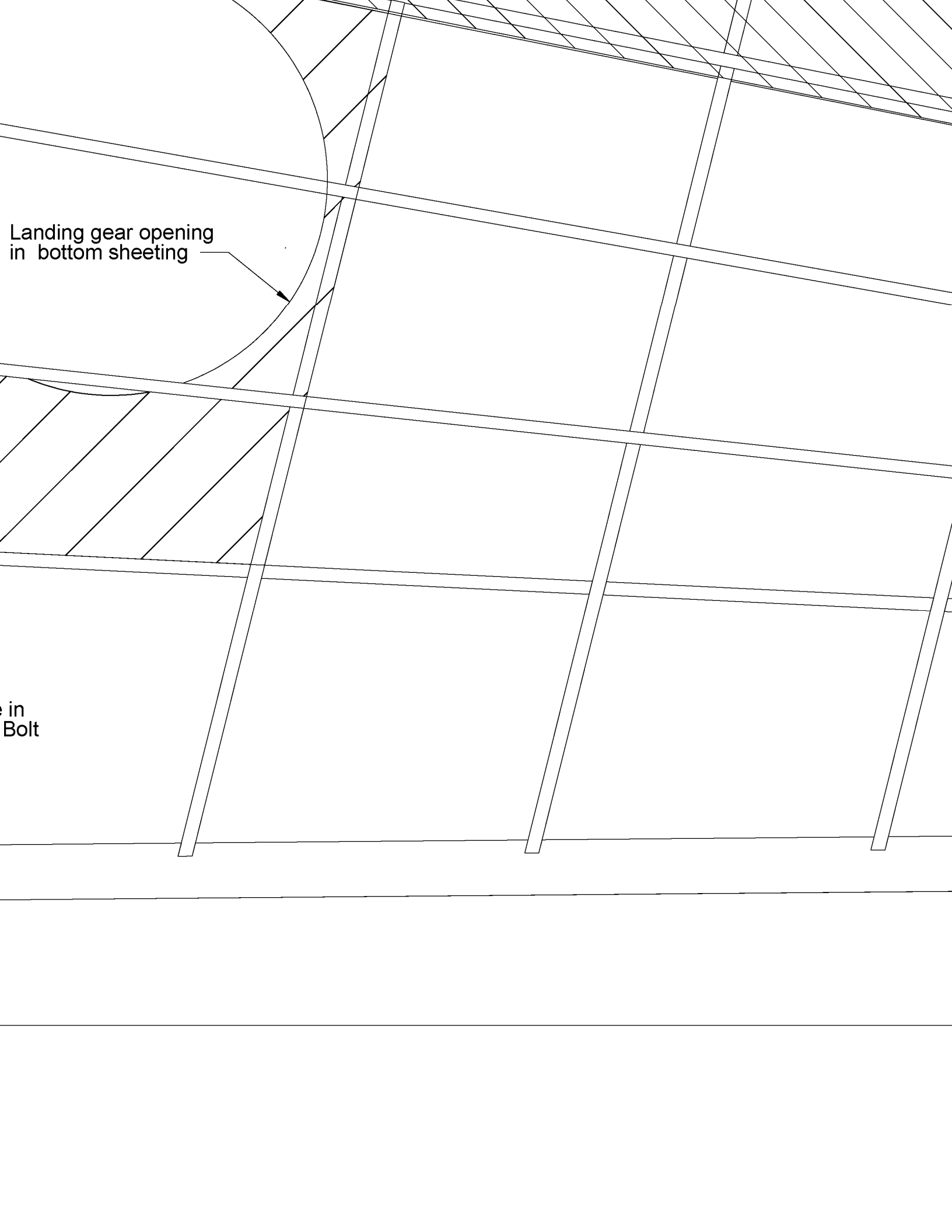
4

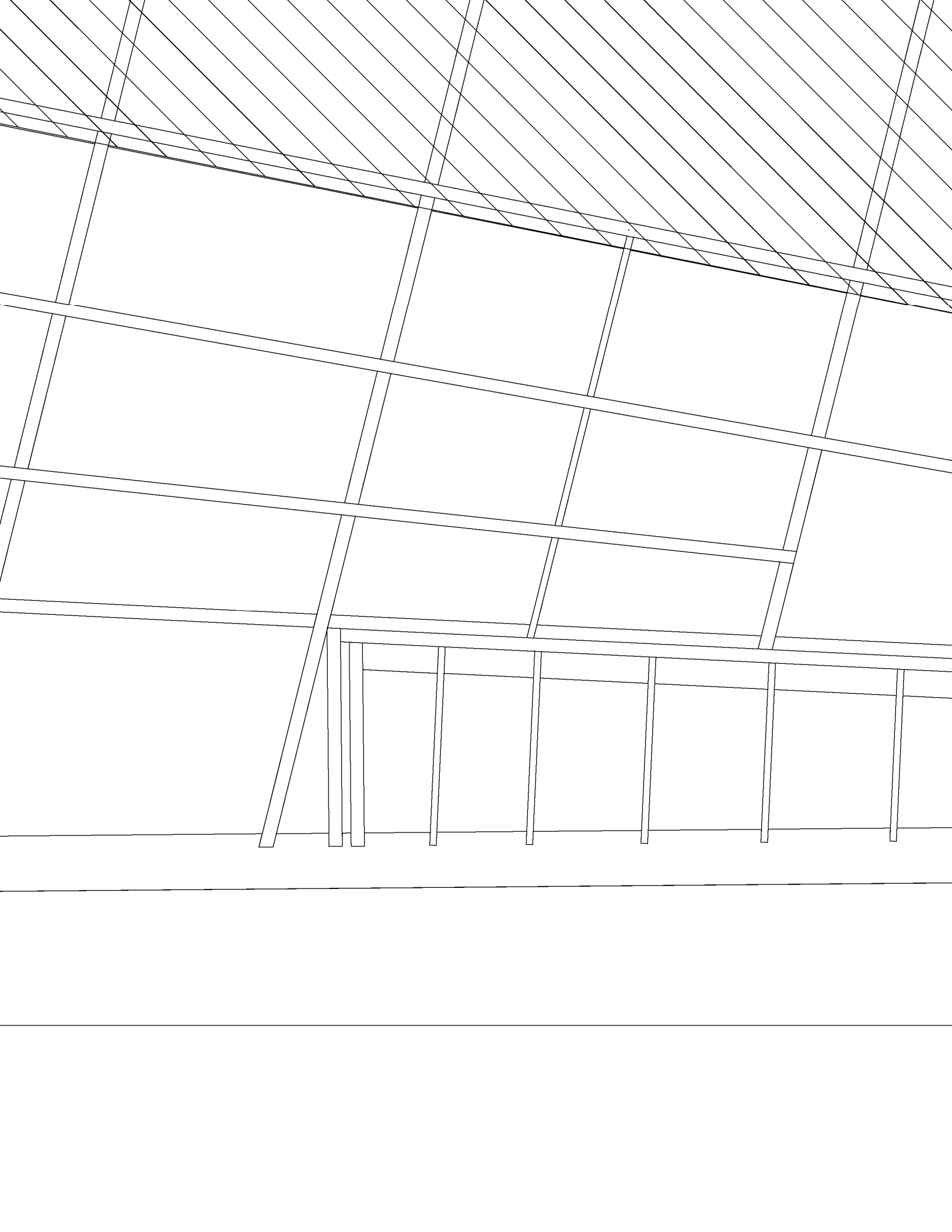


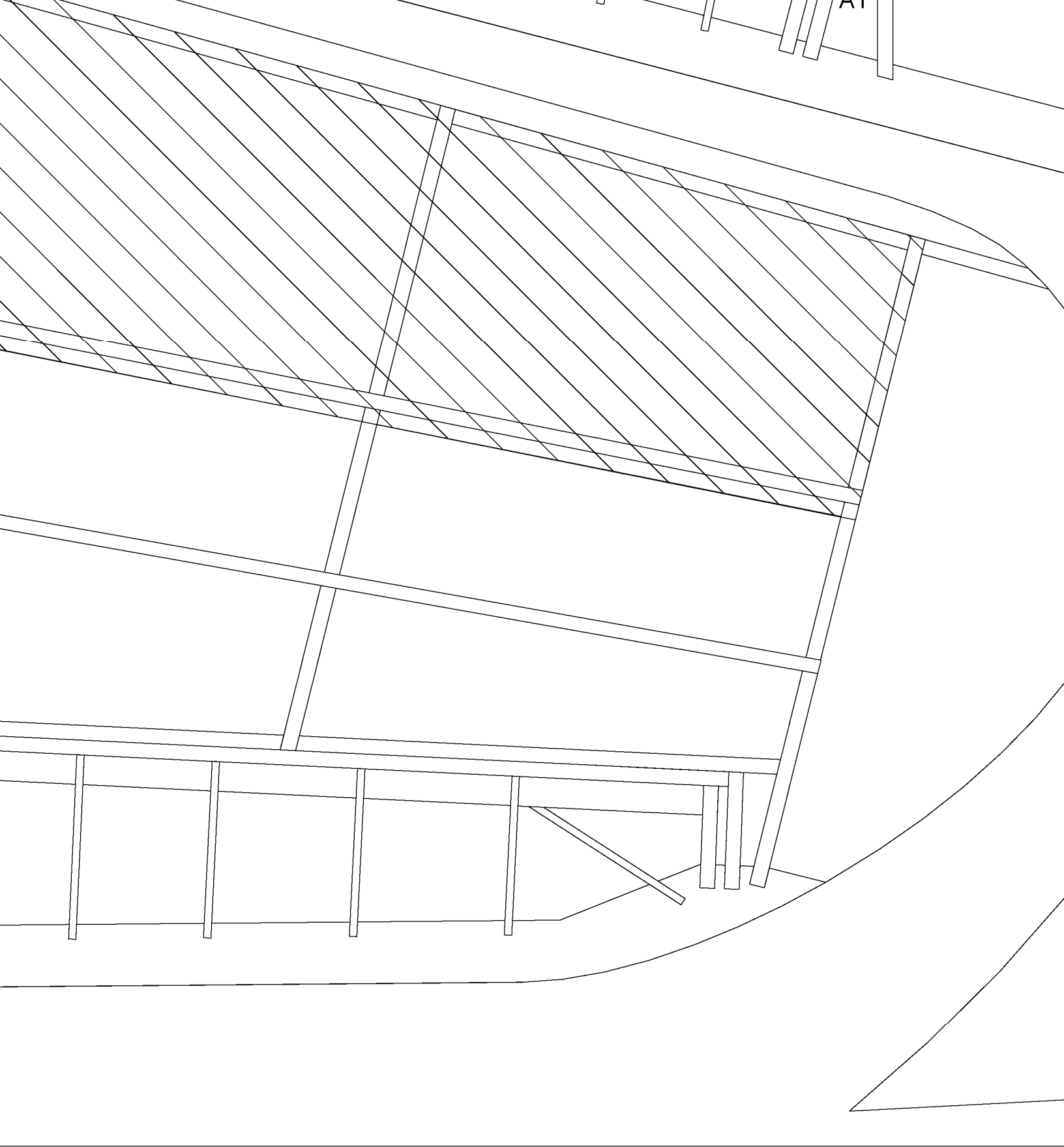
Landing gear opening
in bottom sheeting

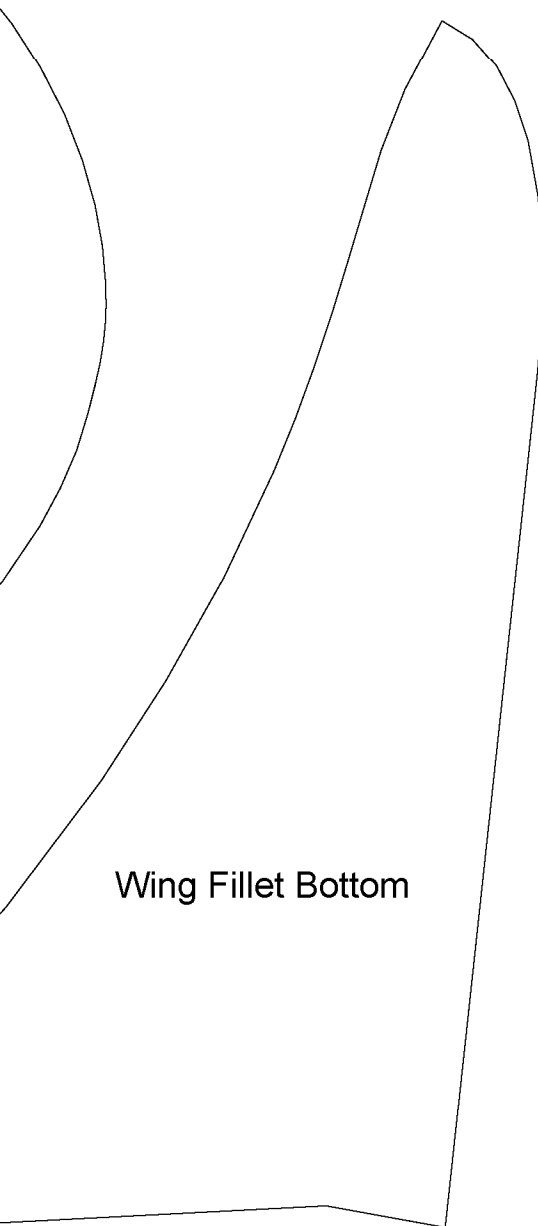


e in
Bolt









Wing Fillet Bottom

TE

WING--ASSEMBLY ORDER:

The wing is built flat against the board. Feet on the ribs and rear spar will set the washout angle.

1. Pin the Lower Main Spar and Rear Spar RS to the board.
 1. Raise the Lower Main Spar by shimming it with 1/16" scrap--this will allow the sheeting to cover the Lower Main Spar later.
2. Ribs W2 thru W10 perpendicular to board.
3. Rib W1--set angle with Dihedral Gauge.
4. Trailing Edge TE.
5. Upper Main Spar, and Shear Webs S1 thru S7.
6. Upper Stringers.
7. Aileron parts in numerical order.
 1. Glue A2 to RS only!
 2. A2 is a doubler to RS.
8. Wing Tip WT--stack two together and then attach to wing.
9. Unpin assembly from board and epoxy S2 into place.
10. Retract Ribs G1 and G2--epoxy to S1 and Main Spars.
11. Leading Edge LE.
12. Upper Sheeting--return assembly to board and sheet from Spar to LE to lock in the washout.
13. Lower Sheeting--unpin assembly and remove feet first.
14. Retract Bosses--stack two G3's and two G4's together.
 1. Epoxy each assembly firmly to Retract Rib and wing sheeting.
15. 1/4" Soft balsa leading edge.
16. Join wings with ply Dihedral Brace.
17. Install a wing pin from 3/16" dowel where marked on ribs V

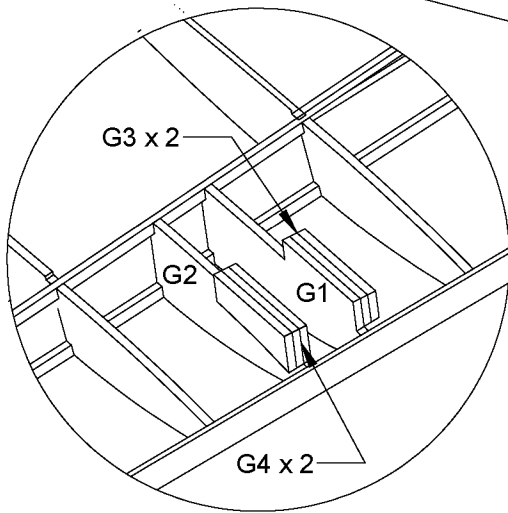
W2

W1

1/4" Through Hole in sheeting for Wing Bolt

ar

balsa
Main



Main

Main Gear Detail

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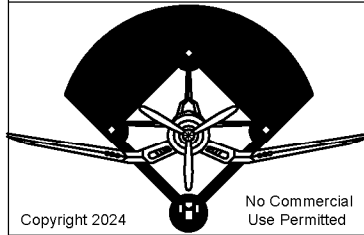


and **ModelAviation**

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V1.

INFIELD ENGINEERINGtm by Paul Kohlmann



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Laser cut kit with plastics available from Manzano Laser Works

www.manzanolaser.com

Title

60" Curtiss P-40C Tomahawk
Plans No. 1143

Size

X

Dwg. No.

Curtiss P40C.drw

Rev

A

Scale: 1:1

Weight: 4.5-5.5lbs

Sheet 2 of 4