

Aerobatic plane for Speed 400 electric

by Philip Rawson

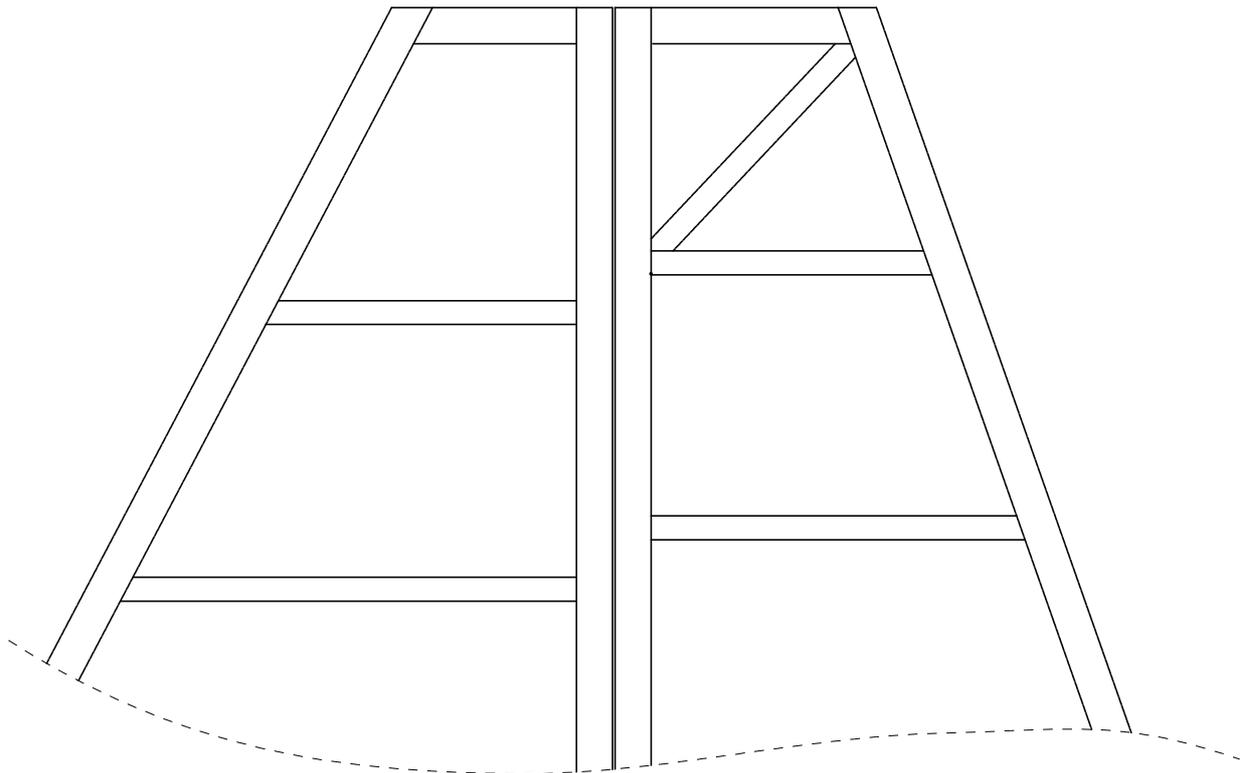
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The prototype used a Graupner 6v Speed 400 motor with 3:1 offset gearbox and 8 cell Sanyo 500AR pack. The best prop for this combination is a 10"x4", but these are not easy to find; a 9"x6" is a good substitute. Hitec HS81 servos were used for elevator and aileron control. "9 gram" servos will do the job, giving space to fit a rudder servo.

Important...

Check that you're printing this plan at the right size.
Print this first page and measure the box that surrounds this text.
It should measure exactly 6" by 1.5"

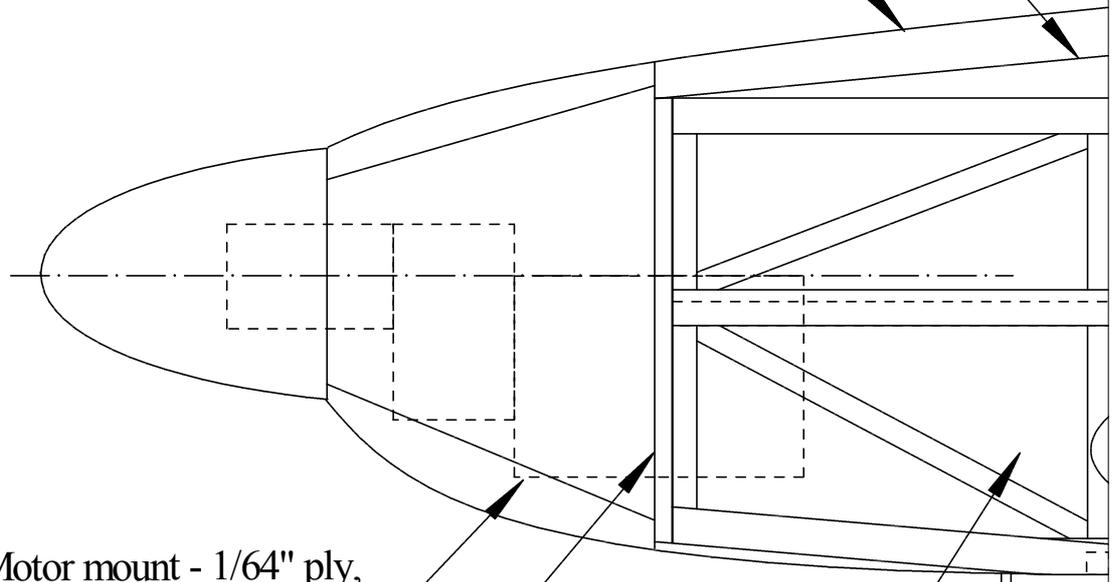
Of course, you can't expect a plan that you've just downloaded off the internet for free to be complete... so you'll need to visit www.flymodels.co.uk for instructions and glorious full colour photos...





Front decking sides - very light 1/4" balsa

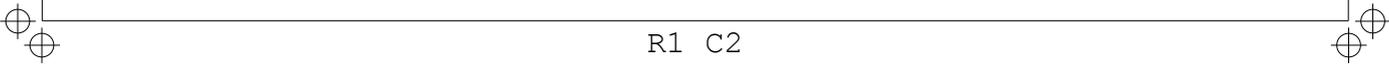
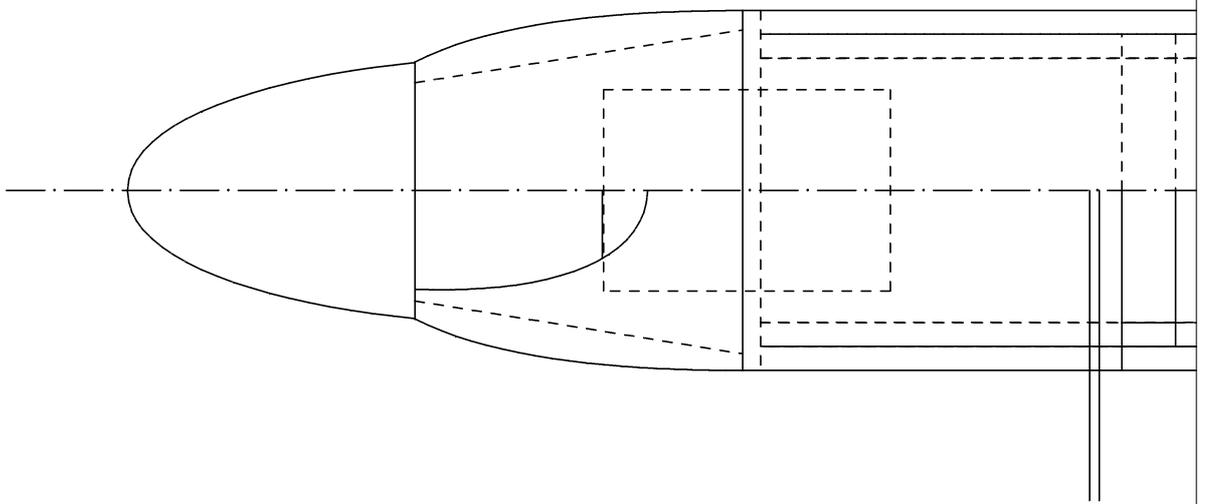
Front decking - very light 1/4" balsa

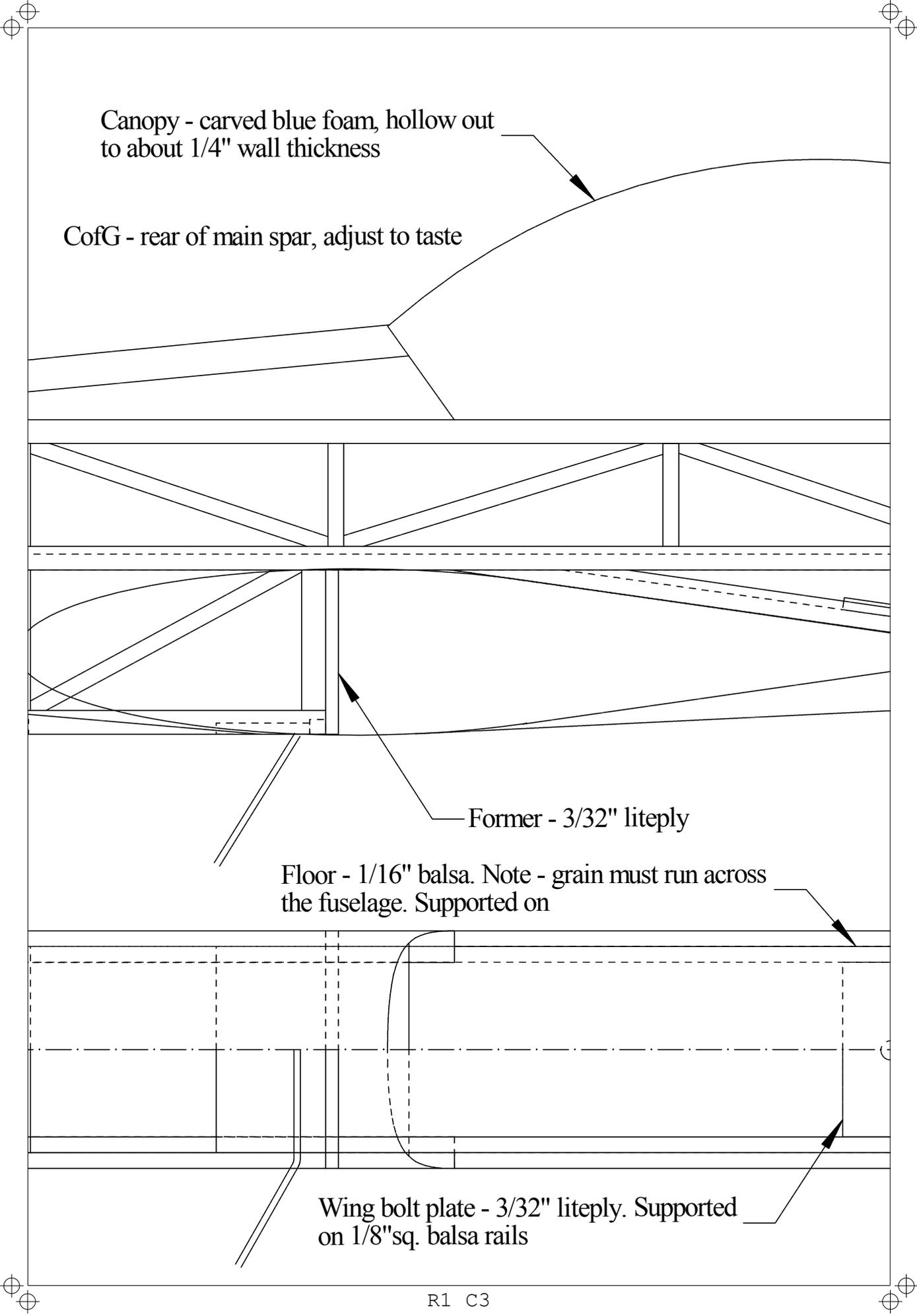


Motor mount - 1/64" ply,
rolled into a tube

Speed controller
lives in here

Firewall - 3/32" liteply





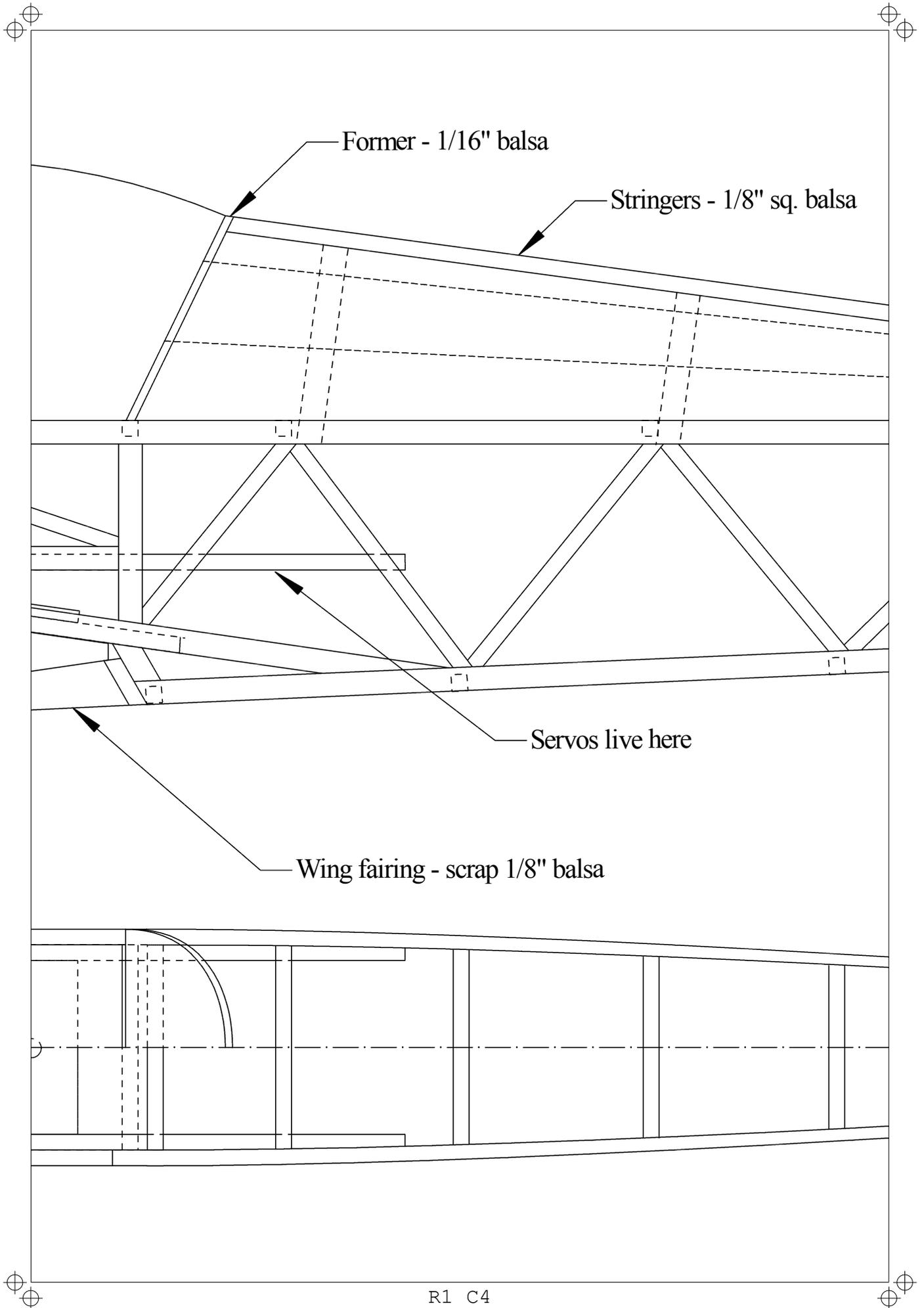
Canopy - carved blue foam, hollow out to about 1/4" wall thickness

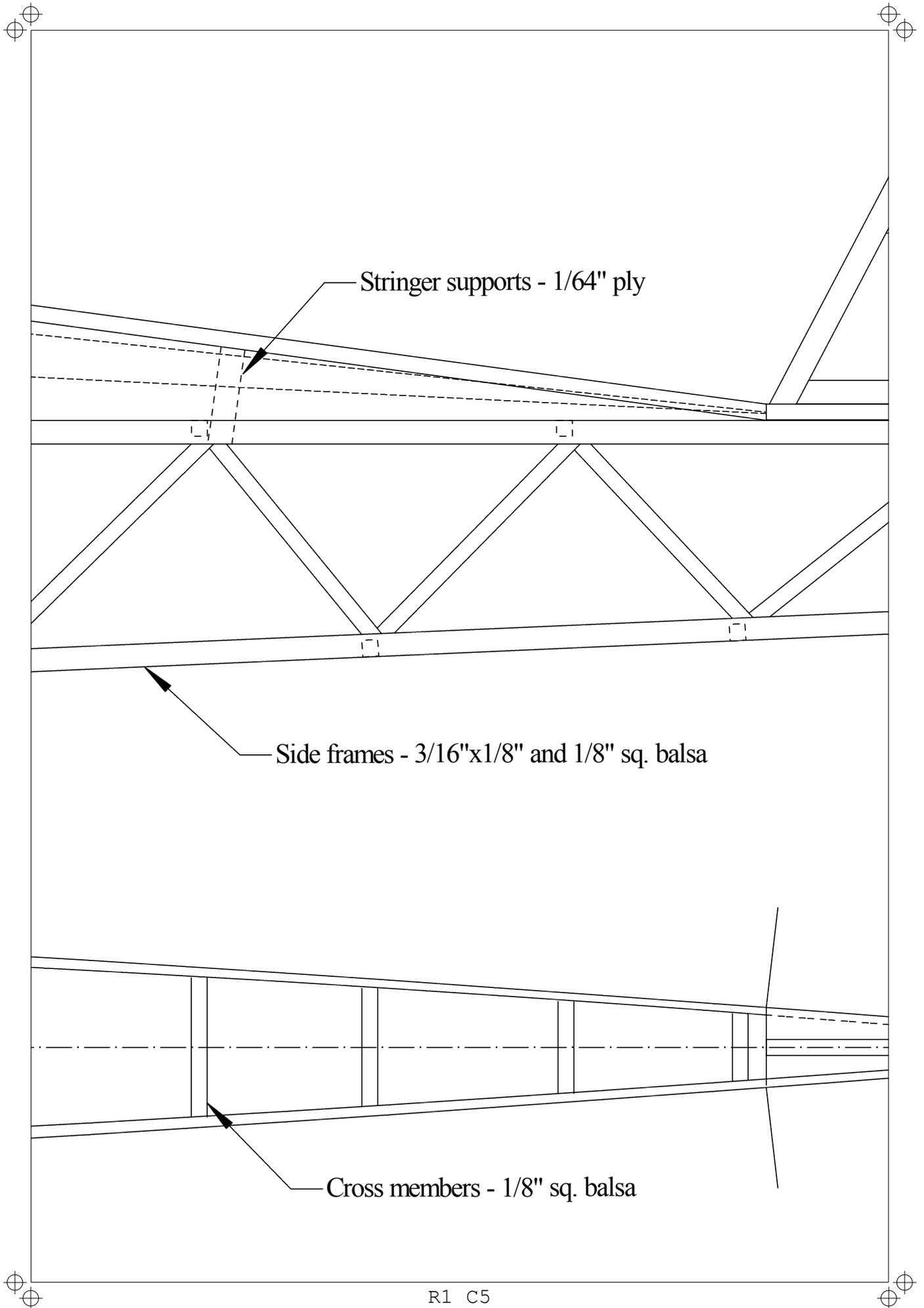
CofG - rear of main spar, adjust to taste

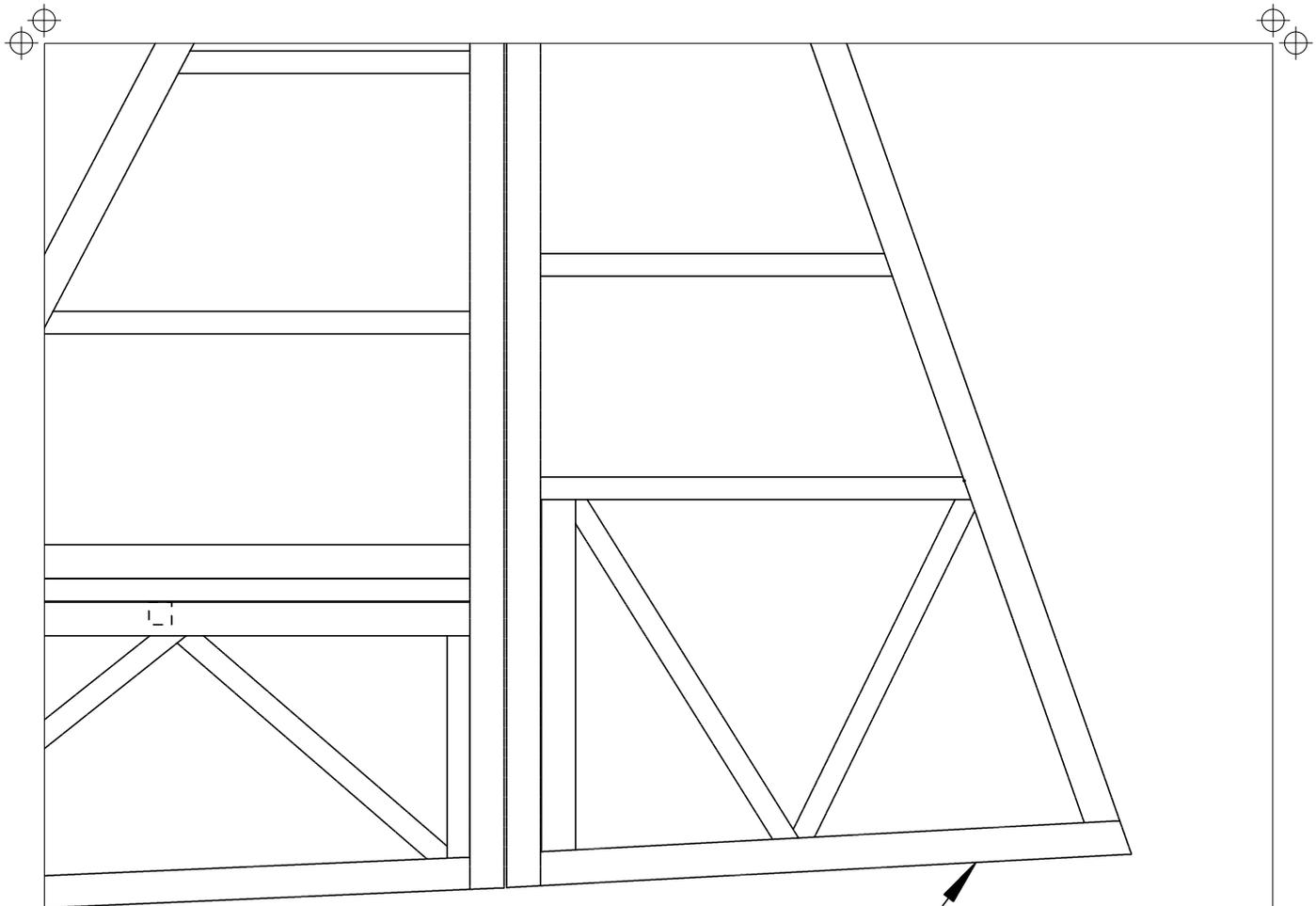
Former - 3/32" liteply

Floor - 1/16" balsa. Note - grain must run across the fuselage. Supported on

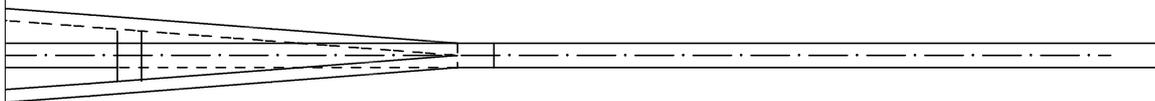
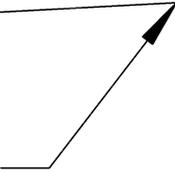
Wing bolt plate - 3/32" liteply. Supported on 1/8"sq. balsa rails

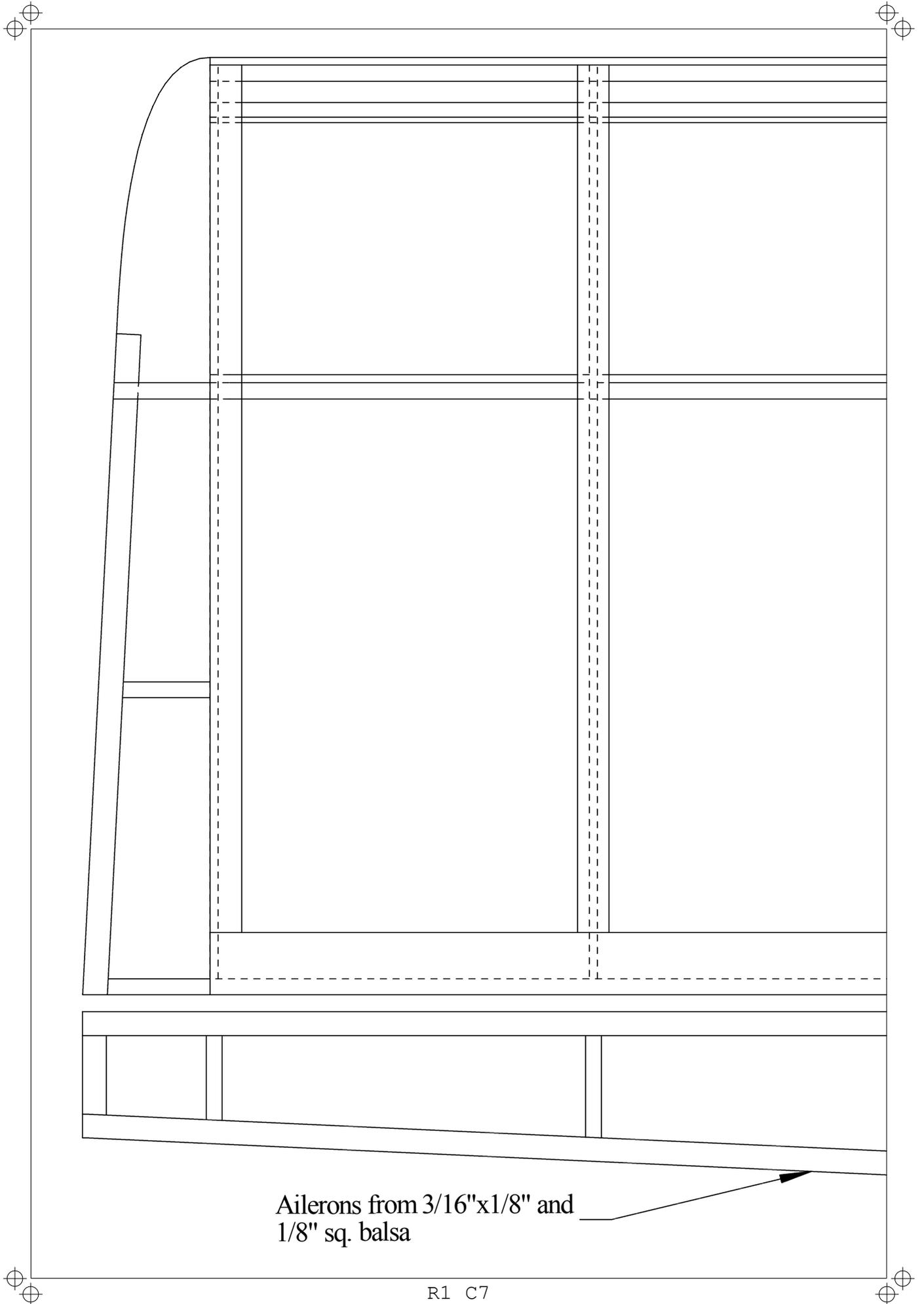






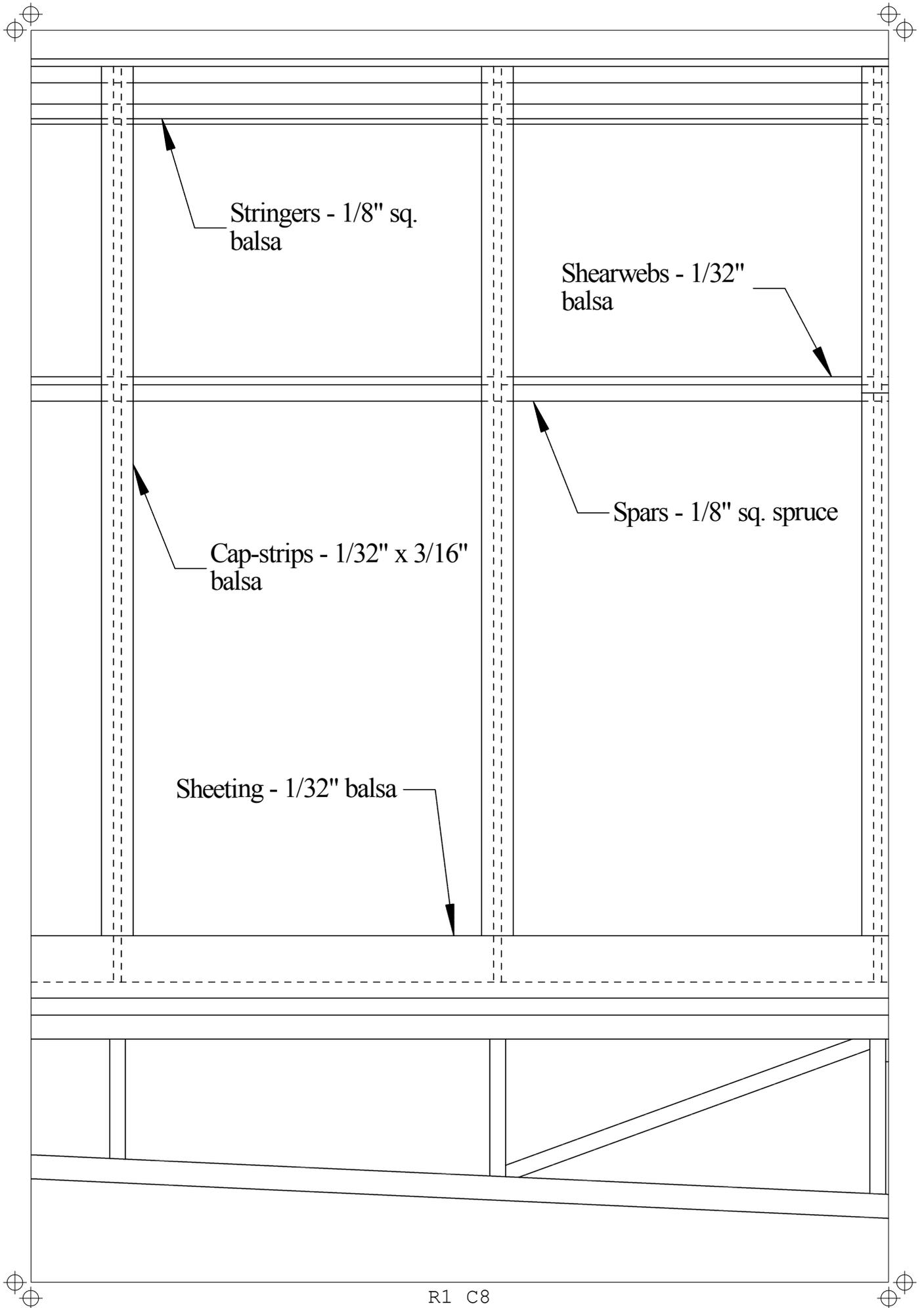
Fin and rudder - 3/16"x1/8" and 1/8"sq. balsa

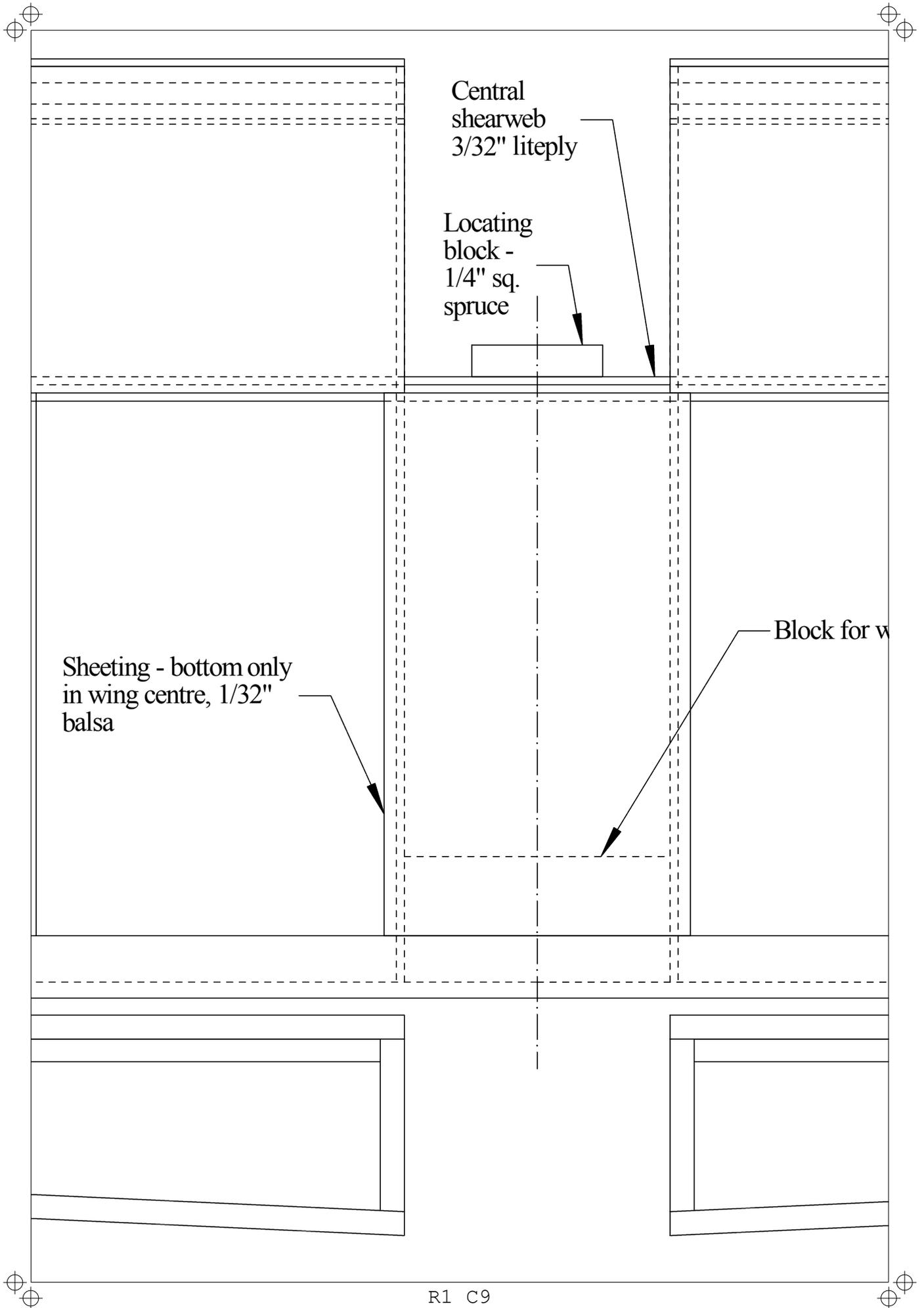


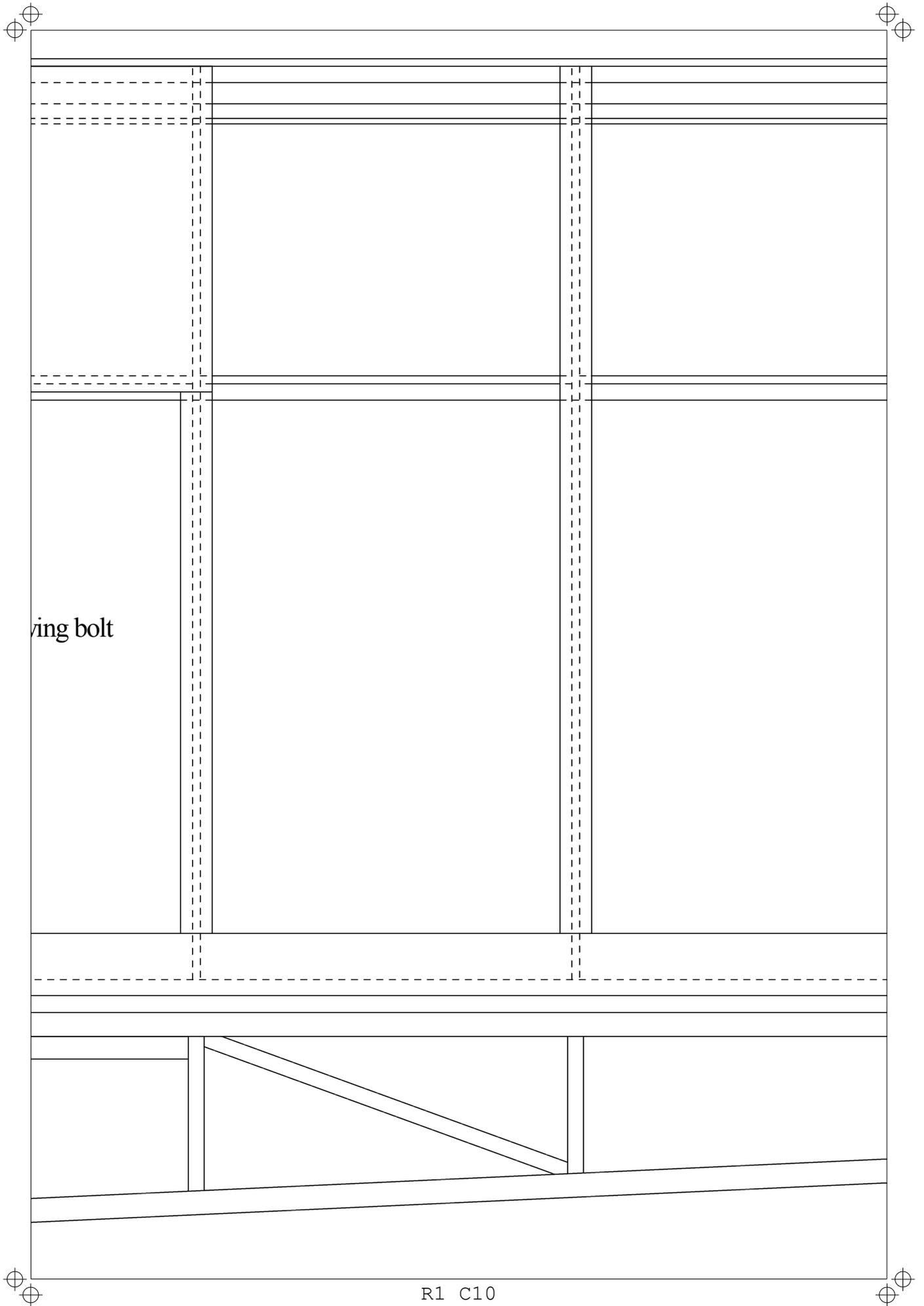


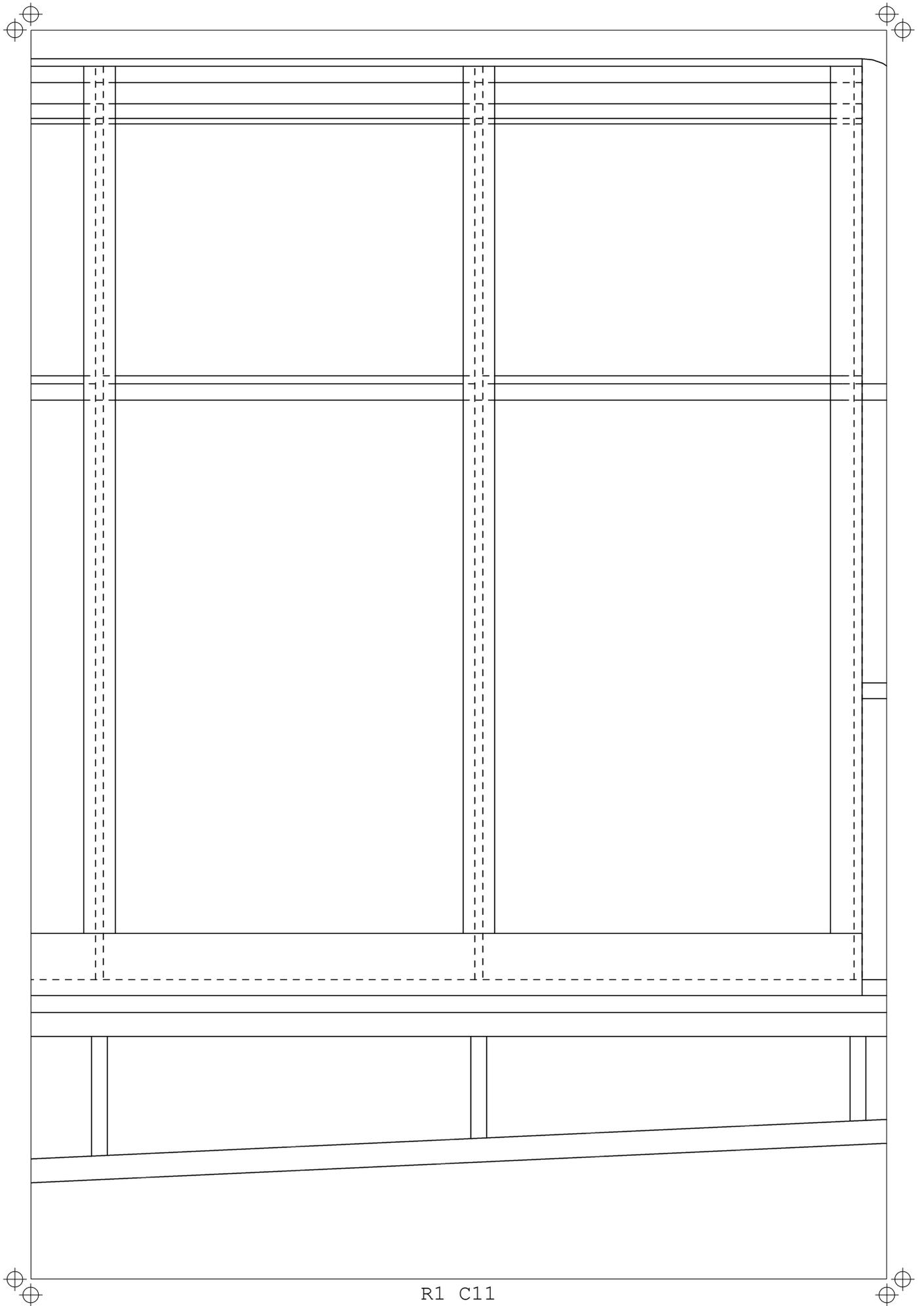
Ailerons from 3/16"x1/8" and
1/8" sq. balsa

R1 C7

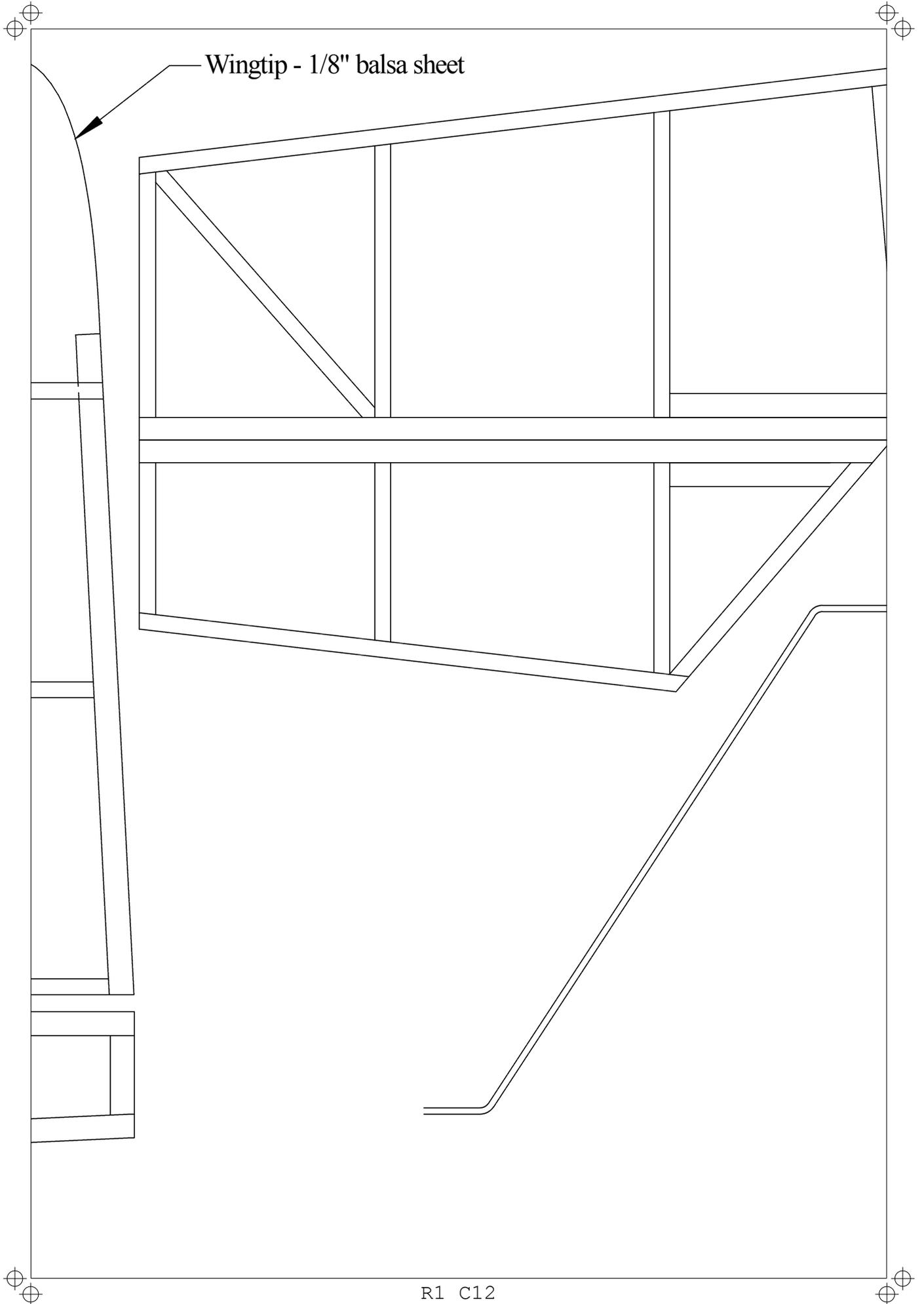


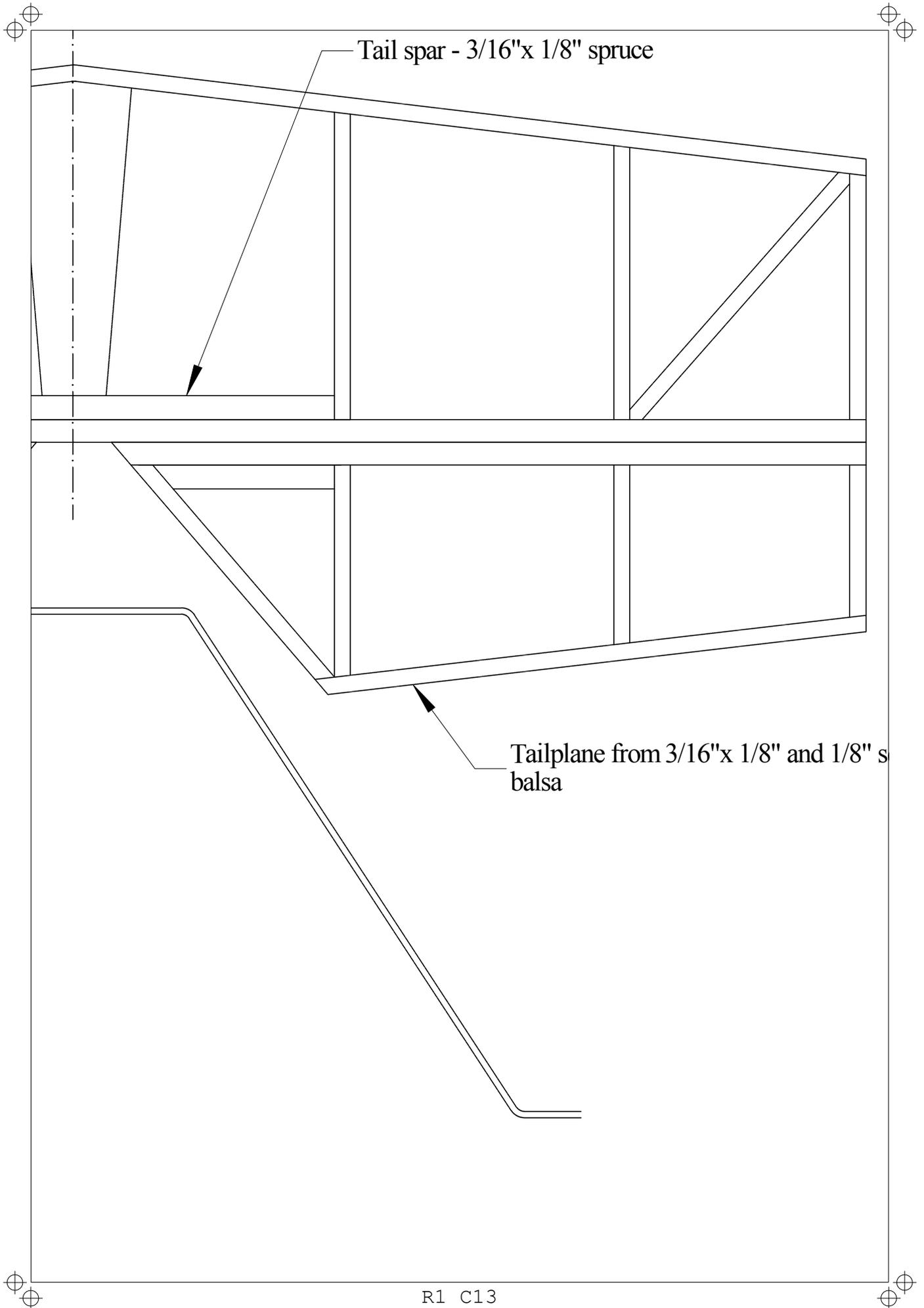


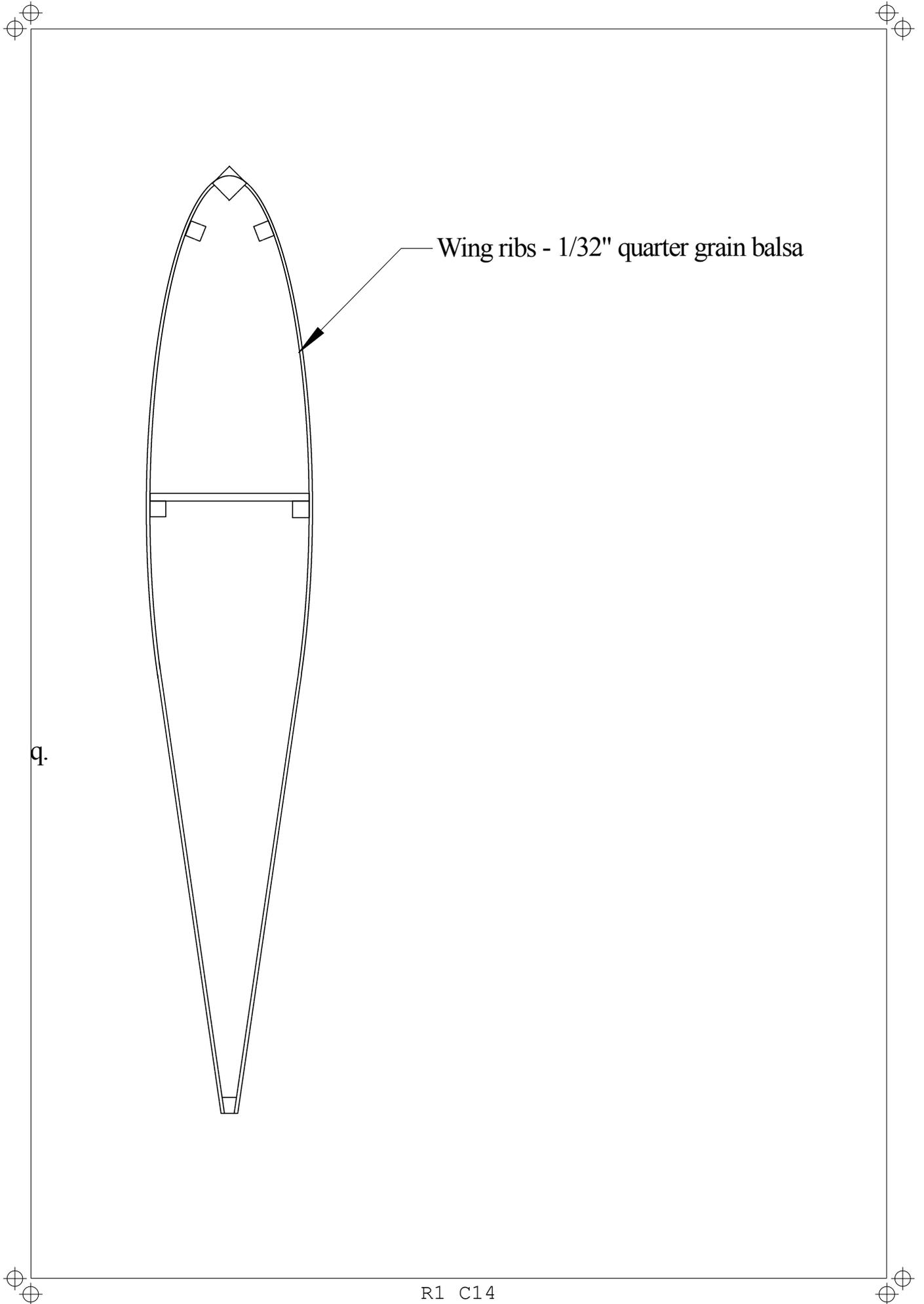




R1 C11







Wing ribs - 1/32" quarter grain balsa

q.

R1 C14