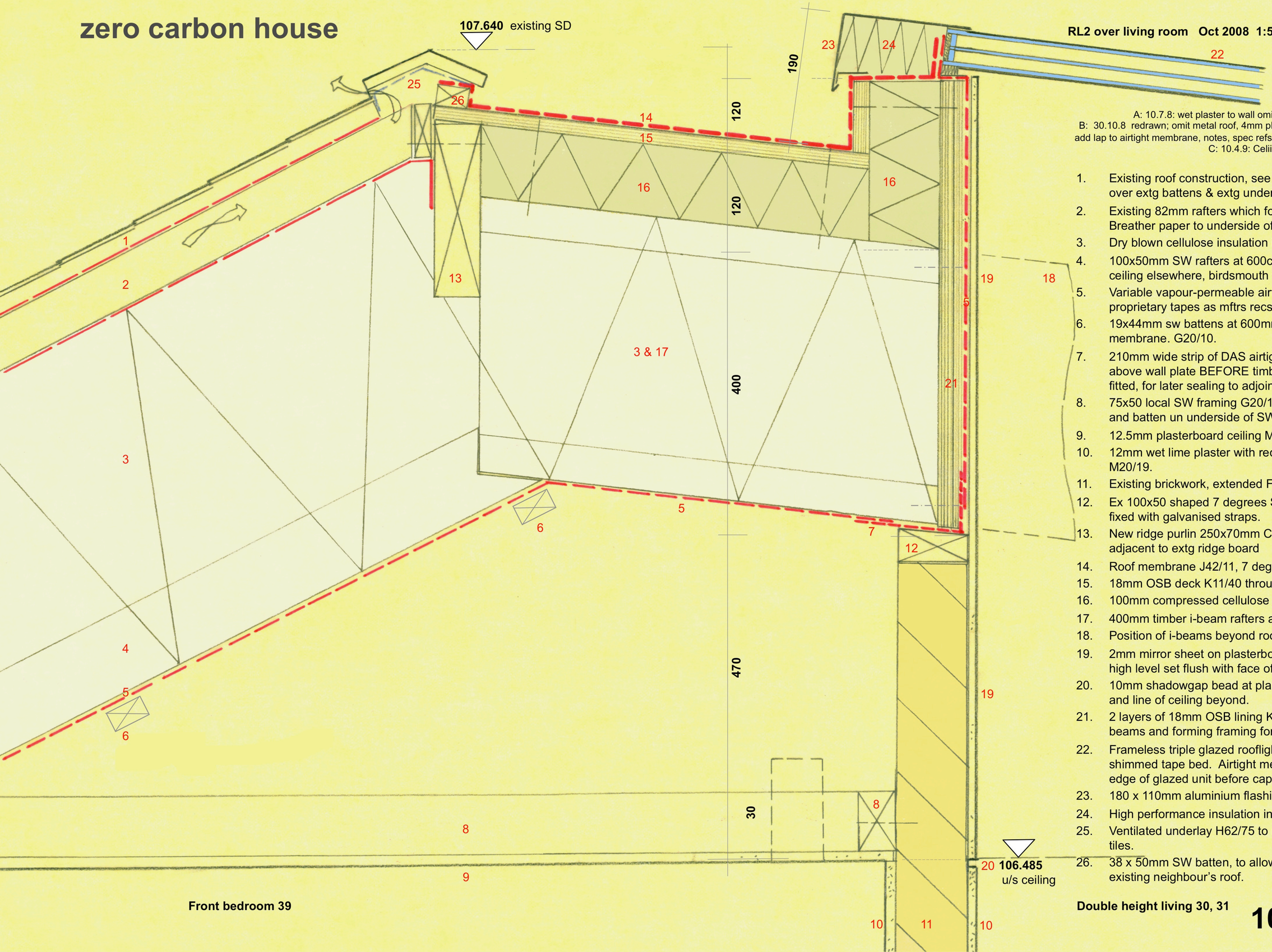
zero carbon house

CONSTRUCTION

RL2 over living room Oct 2008 1:5 at A3 103 (27) 03 C



A: 10.7.8: wet plaster to wall omitted, 12mm setback, notes
B: 30.10.8 redrawn; omit metal roof, 4mm ply lining, shadowgap detail; add lap to airtight membrane, notes, spec refs, dims, new rooflight detail.
C: 10.4.9: Celiing level in Living , note 20.

1. Existing roof construction, see 103(27)01, extg slates over extg battens & extg underlay H62.
2. Existing 82mm rafters which form ventilated void. Breather paper to underside of extg rafters P10/65.
3. Dry blown cellulose insulation infill P10/06.
4. 100x50mm SW rafters at 600c/c G20/10, supporting ceiling elsewhere, birdsmouth to timber i-beam.
5. Variable vapour-permeable airtight sealed with proprietary tapes as mftrs recs P10/66.
6. 19x44mm sw battens at 600mm to clamp airtight membrane. G20/10.
7. 210mm wide strip of DAS airtight membrane laid loose above wall plate BEFORE timber i-beam rafters are fitted, for later sealing to adjoining airtight membrane.
8. 75x50 local SW framing G20/10 for ceiling fixed to wall and batten un underside of SW rafter.
9. 12.5mm plasterboard ceiling M20/50.
10. 12mm wet lime plaster with recycled glass aggregate M20/19.
11. Existing brickwork, extended F10/30A.
12. Ex 100x50 shaped 7 degrees SW wall plate. G20/10. fixed with galvanised straps.
13. New ridge purlin 250x70mm C24 timber G20/05, fixed adjacent to extg ridge board
14. Roof membrane J42/11, 7 degree roof pitch.
15. 18mm OSB deck K11/40 through-fixed back to i-beams.
16. 100mm compressed cellulose insulation board P10/46.
17. 400mm timber i-beam rafters at 600 c/c G20/06.
18. Position of i-beams beyond rooflight.
19. 2mm mirror sheet on plasterboard lining to rooflight at high level set flush with face of plaster below.
20. 10mm shadowgap bead at plaster/plasterboard junction and line of ceiling beyond.
21. 2 layers of 18mm OSB lining K11/40 fixed to timber i-beams and forming framing for glazing above.
22. Frameless triple glazed rooflight, Ug=0.5 L11/115 on pre-shimmed tape bed. Airtight membrane P10/65 taped to edge of glazed unit before capping is fixed.
23. 180 x 110mm aluminium flashing to rooflight L11/115.
24. High performance insulation infill L11/120.
25. Ventilated underlay H62/75 to re-bedded existing ridge tiles.
26. 38 x 50mm SW batten, to allow ridge to align with existing neighbour's roof.

103 (27) 03