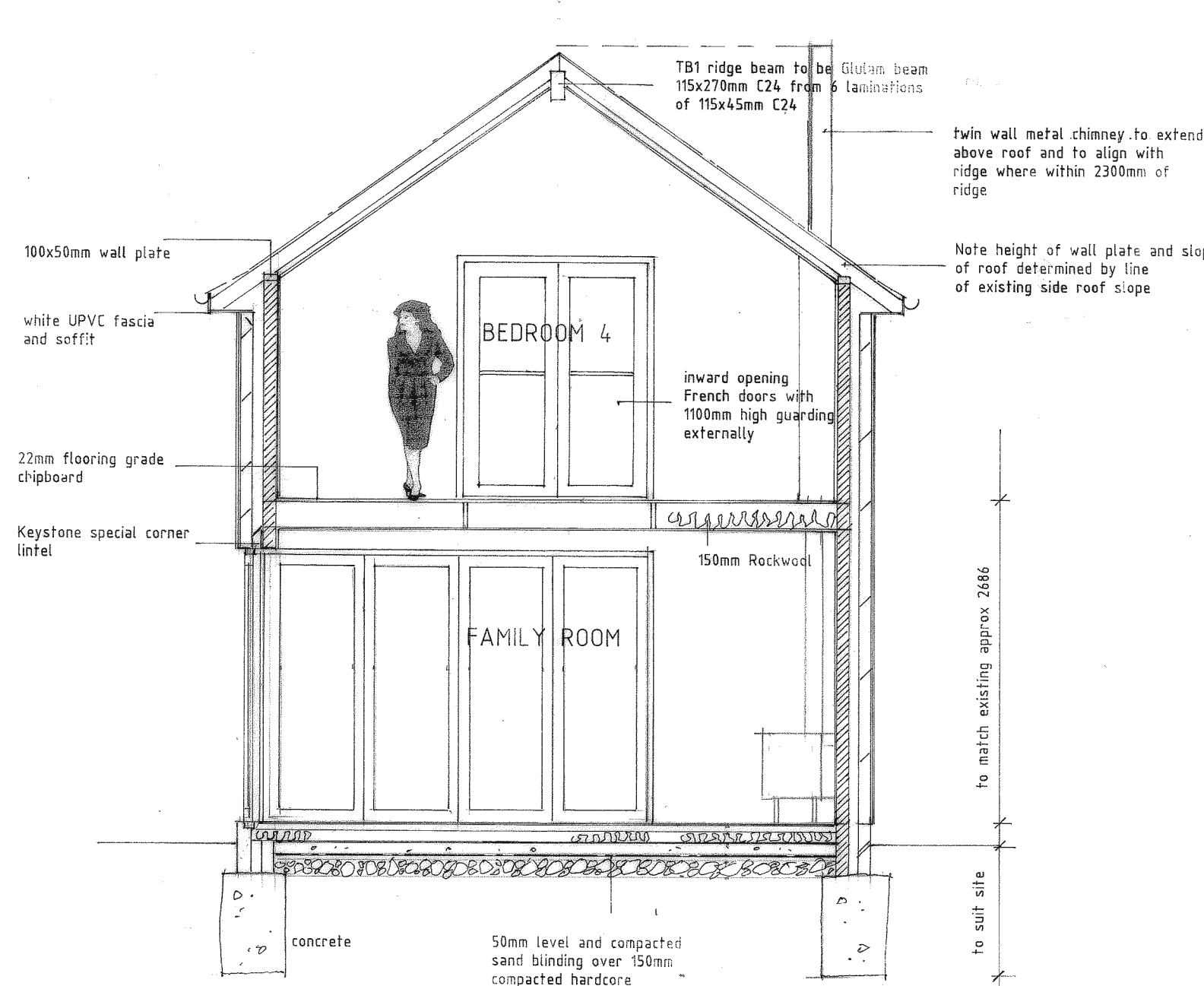
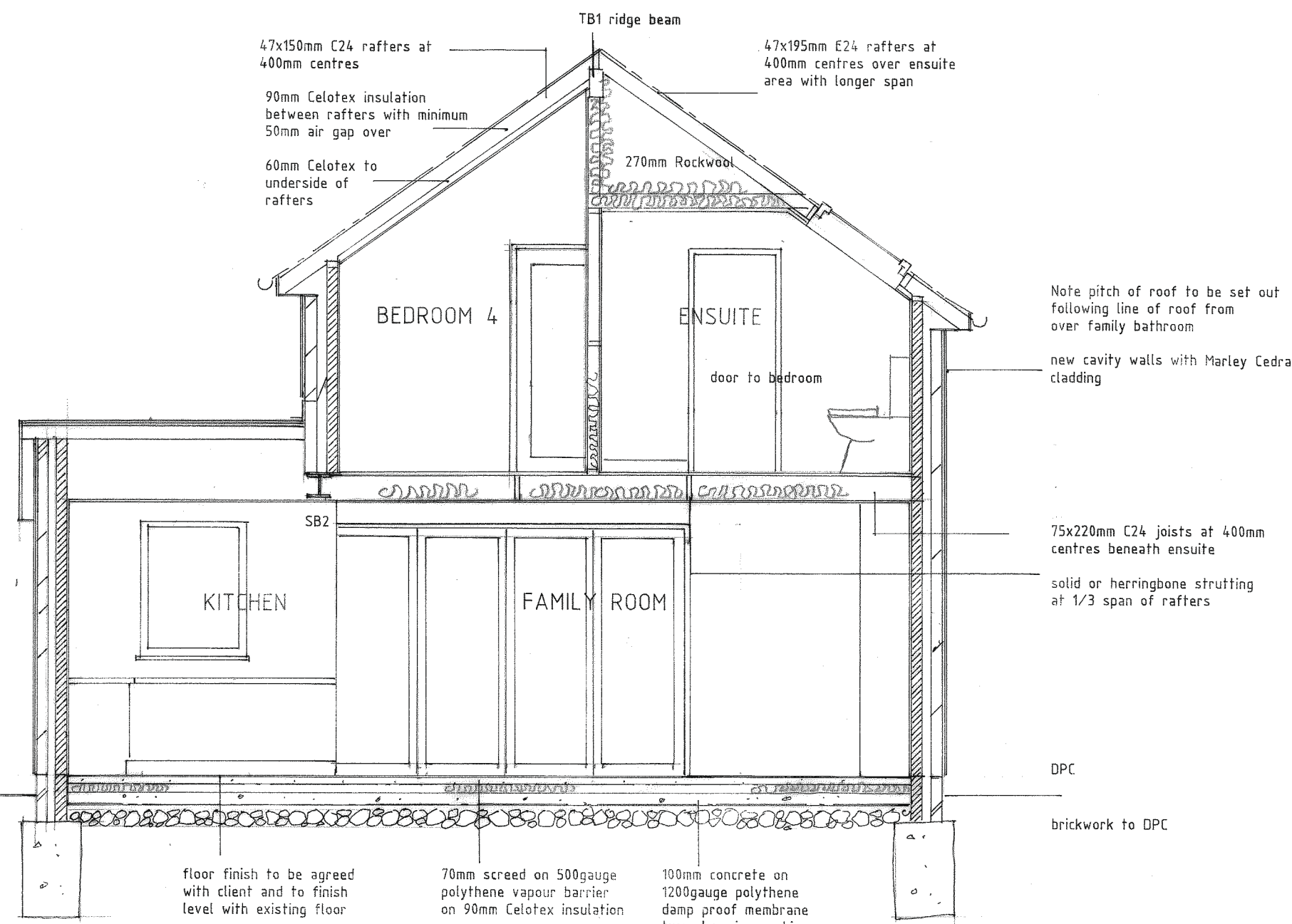
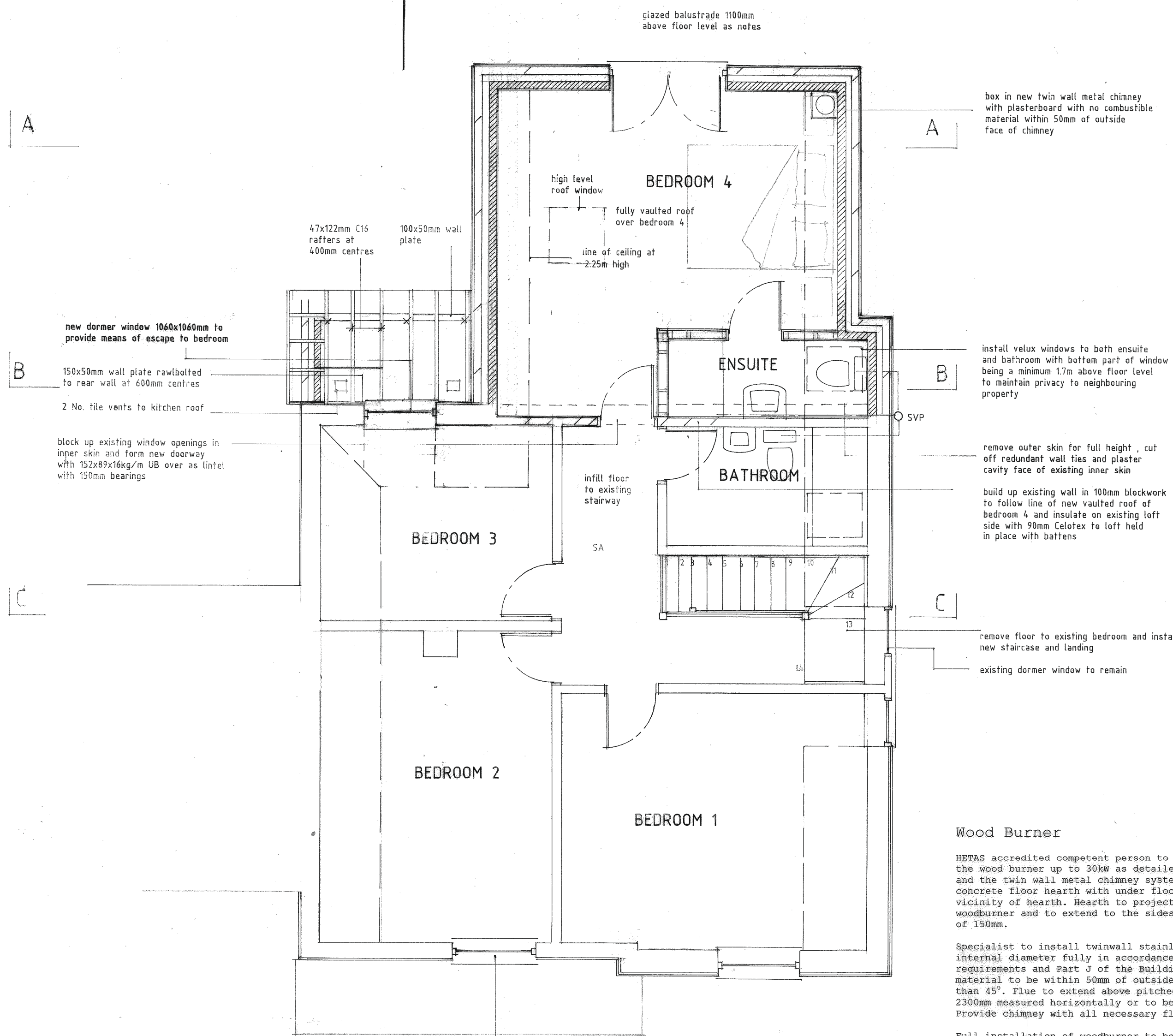




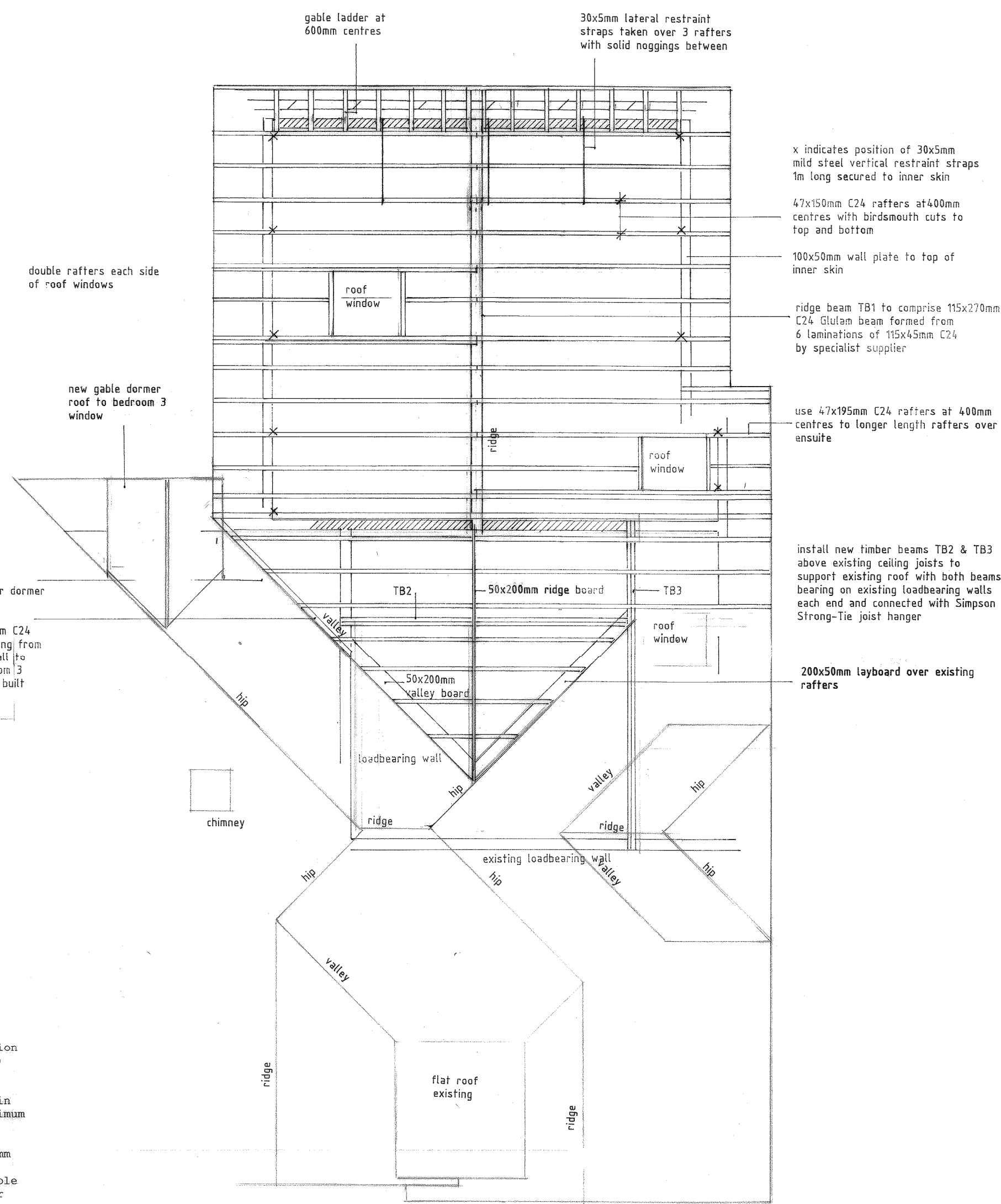
SECTION AA



SECTION BB



FIRST FLOOR



ROOF PLAN

Pitched roof to main extension

Install TB2 and TB3 into existing roof space and ensure existing rafters and ceiling joists are fully supported off of these new beams prior to pitching new roof.
New 4 existing roofs to be Siga 39 roofing slates (Tel: 01480 466777) on battens on Zyrtek Underlay by DuPont Engineering Products (Tel: 01275 879770) draped over rafters and installed in accordance with the manufacturer's instructions and Agreement Certificate No. 99/3635 and detail sheet 3, with minimum 150mm horizontal laps.

Generally 47 x 150mm C24 rafters at maximum 400mm centres with 47 x 195mm C24 rafters over ensuite roof only at 400mm centres. Rafters to have birdsmouth cuts to top and bottom to avoid roof spread. Over ensuite provide 47 x 150mm C16 ceiling ties at 400mm centres bolted to rafters with M16 bolts and double sided toothed plate connectors.

Ridge beam TB1 over Bedroom 4 to be Glulam beam overall size 115 x 270mm C24 comprising 6 laminations of 115 x 45mm C24 to BS EN 386: 2001 by specialist supplier. Glulam beam to bear 100mm onto loadbearing walls each end.

100 x 50mm wall plate to top of inner skin. 200 x 50mm ridge board and 50 x 200mm valley boards at intersection of new roof with existing.

Trim and support existing rafters and ceiling joists with new timber beams TB2 and TB3. TB2 to be 2 No. 50 x 220mm C24 spanning side to side within existing roof space. Beam to run side to side and to have packed bearing to bedroom 3 / landing wall and to be supported on TB3. TB3 running front to back to be 2 No. 50 x 220mm C24 joists with 10 x 220mm mild steel plate between bolted together with M16 bolts at 562mm centres staggered 25mm above and below centreline of beam. TB3 supported at each end on existing loadbearing walls.

Insulate sloping ceilings with 90mm Celotex GA4090Z between rafters with second continuous layer to underside of rafters of 60mm Celotex GA4060Z. Seal all joints in Celotex with aluminium reflective foil tape to form vapour barrier.

To flat ceiling over ensuite provide 2 layers of Rockwool insulation comprising of 100mm Rockwool between joists and 170mm Rockwool laid over joists.

Fully insulate eaves box whilst still maintaining ventilation.

Provide ceiling of 12.5mm plasterboard and skim plaster.

White UPVC fascia, barge boards and soffit.

Foundations

Concrete foundations to walls indicated on plan generally 500mm wide mass fill concrete at depth to suit site conditions. Foundations to be a minimum 1m below ground level in clay subsoil and taken to depths in accordance with NMC Standards Chapter 4.2 in shrinkable soils in relation to existing or previously removed trees.

Foundations in relation to existing drains and sewers to be taken 150mm below invert level where within 1m and to a depth equal to the distance away plus 150mm where more than 1m.

Walls below ground

295mm wide cavity walls comprising 100mm wide concrete blockwork to outer skin and 100mm Thermalite Shield blockwork to inner skin with 95mm cavity. Fill cavity with concrete to within 225mm of ground level.

Ground floor

Floor finish to be agreed with client, level with the existing floor. Minimum 70mm grit screed on 500 gauge vapour barrier on 90mm Celotex GA4090Z insulation on 100mm concrete on 1200 gauge polythene DPM on, 50mm level sand blinding on, minimum 150mm clean compacted hardcore.

1200 gauge polythene membrane lapped into DPC's and protected during concreting.

Cavity walls above ground level

295mm wide cavity walls comprising 100mm brickwork outer skin to closely match existing to DPC level and concrete blockwork above.

Maximum 95mm cavity, partially filled with 45mm Celotex CW4045Z partial fill cavity wall insulation held in place by wall tie retaining clips in accordance with Agreement Certificate No. 94/3080 and manufacturers instructions.

100mm wide Thermalite Shield blocks as inner skin with lightweight plaster and skim internally. To areas shown as shown crosshatched on plan supporting upper steel beams, use Thermalite HI-strength 7.3 N/mm² blockwork to spread loads.

Provide DPC's minimum 150mm above ground level and lapped minimum 100mm into existing.

Provide double triangle wall ties at 600mm centres horizontal spacing, 450mm vertically and 225mm at reveals, with a minimum 3 No. wall ties and retaining clips to each whole or cut piece of insulation board.

Provide vertical restraint between walls and roof with 30 x 5mm mild steel vertical straps secured 1m down inner face of inner skin at maximum 2m centres.

Provide cavity closers to window and door reveals with proprietary closers having a minimum thermal resistance path of 0.45m²/K. Window frames to overlap closers by a minimum 30mm. Provide mastic sealant to frames internally and externally.

New blockwork to be fully toothed and bonded into existing walls with continuous cavities. Seal tops of cavities with Rockwool fire stop. See Finishes notes for finishes to external walls.

Internal studwork

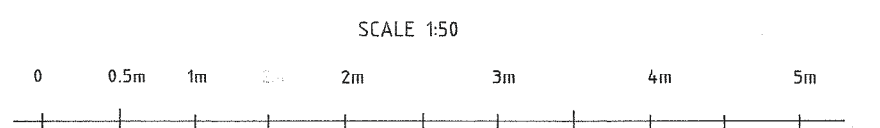
Studwork from 100 x 50mm studs, noggings sole and headplates with studs at 400mm centres.

Provide 100mm Rockwool minimum density 10kg/m³ to act as sound insulant. 12.5mm plasterboard minimum mass of 10kg/m² and plaster skim to internal studwork.

03.11.2016 Revisions to show "as built" including omission of Keylite roof window and vertical element to bedroom 3 and provision of dormer window to bedroom 3. Introduction of woodburner and twin wall metal chimney. Omission of tiles to match existing and replace with Siga 39 roofing slates.

06.04.2016 Building Regulation and construction information added.

30.11.2015 Two storey extension reduced in depth and repositioned. Roof windows added.



TWO STOREY EXTENSION & ALTERATIONS

3 PARK LANE
BEDHAMPTON
HAVANT
HAMPSHIRE
PO9 3HG

MR & MRS SENNETT

DRAWING: PROPOSED FIRST FLOOR PLAN & ROOF PLAN

SCALE: 1:50

DRG No. 1053/3 DATE: MAY 2015

SPACE
&
Style
HOME DESIGN

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This drawing is to be read in conjunction with any accompanying calculations, drawings, notes or specification. All dimensions on site supersede drawing and to be checked and verified by contractor prior to ordering materials. Any discrepancies or changes to be referred to Space & Style Home Design.

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