

For Planning Purposes
Purposes Only

Not to be used for Construction

Notes:

Do not scale from this drawing unless for the purposes of Local Planning Authority Approval. Please verify that the information is correctly printed to scale by checking the control bar.

This drawing must be read in conjunction with all other contract drawings and documentation. It is the contractors responsibility to ensure full compliance with the Building Regulations. Any discrepancies to be reported immediately. If in doubt, ask.

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Rev	Date	Description
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Drawing No.
4.102

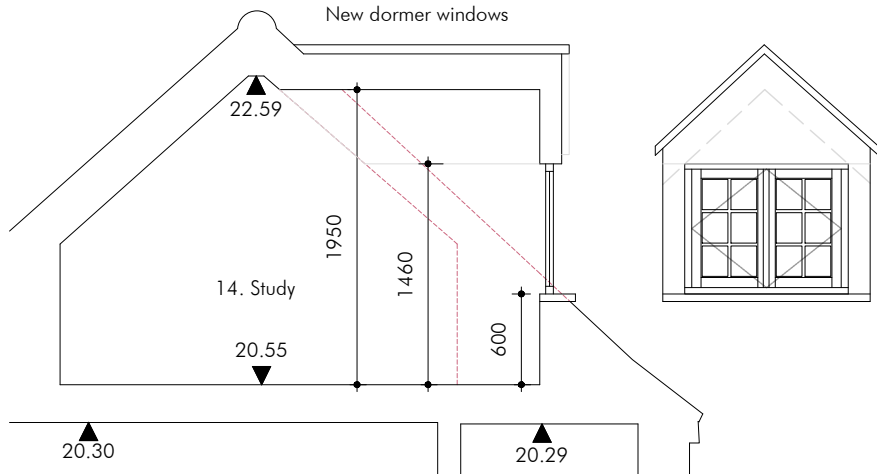
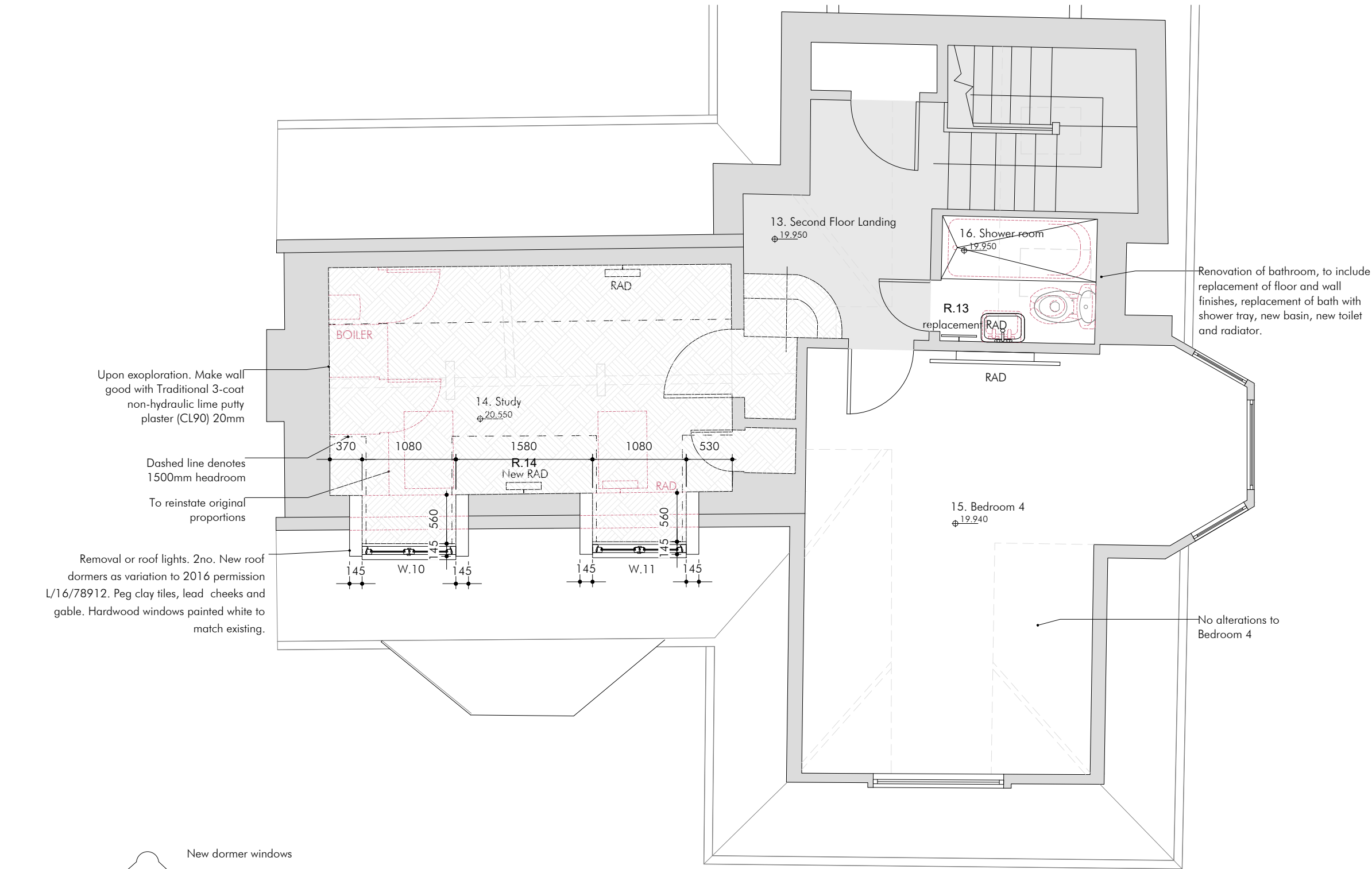
Current Revision
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Drawing
Second Floor GA

Project
South House - Hamble Le Rice

Project No.
2509

Scale
1:50 @ A3



Dormer section
Scale 1:50 @ A3

Dormer roof buildup 175mm + tiles (Target U-Value: 0.20 W/m2K):
Roof Covering: Roof tiles / slates to match existing historic fabric.
Tile Battens: 25 mm x 38 mm timber battens.
Counter Battens: 25 mm timber counter battens (essential for ventilation under tiles).
Roofing Membrane: Vapour-permeable breathable membrane (<1 mm).
Slim Rafters & Core Insulation: 95 mm deep C24 timber rafters filled with 90 mm Phenolic insulation (lambda = 0.018 W/mK, e.g., Kingspan Kooltherm K107).
Under-Rafter Insulation (Rigid Board): 25 mm Insulated Plasterboard (12.5 mm phenolic insulation + 12.5 mm plasterboard with integrated vapour control layer).

Dormer cheeks and gable buildup 145mm (Target U-Value: 0.22 W/m2K):
Layer-by-Layer Build-up (Outside to Inside)
Lead Cladding: Code 5 Lead sheet (~2.2 mm).
Underlay: Geotextile underlay / separation paper (~1 mm).
Substrate: 18 mm WBP Plywood (or 19 mm T&G timber boarding if preferred by Conservation).
Ventilated Cavity: 25 mm treated timber battens (creating the mandatory vertical drainage/ventilation gap).
Breather Membrane: High-performance vapour-permeable membrane (<1 mm).
Slim Timber Studs & Primary Insulation: 70 mm timber studs (or 63 mm CLS) filled with 70 mm Phenolic insulation lambda = 0.018 W/mK, e.g., Kingspan Kooltherm K112.
Continuous Internal Insulation: 25 mm Insulated Plasterboard (12.5 mm phenolic insulation + 12.5 mm plasterboard with integrated vapour barrier).
Internal Finish: 2 mm plaster skim coat.