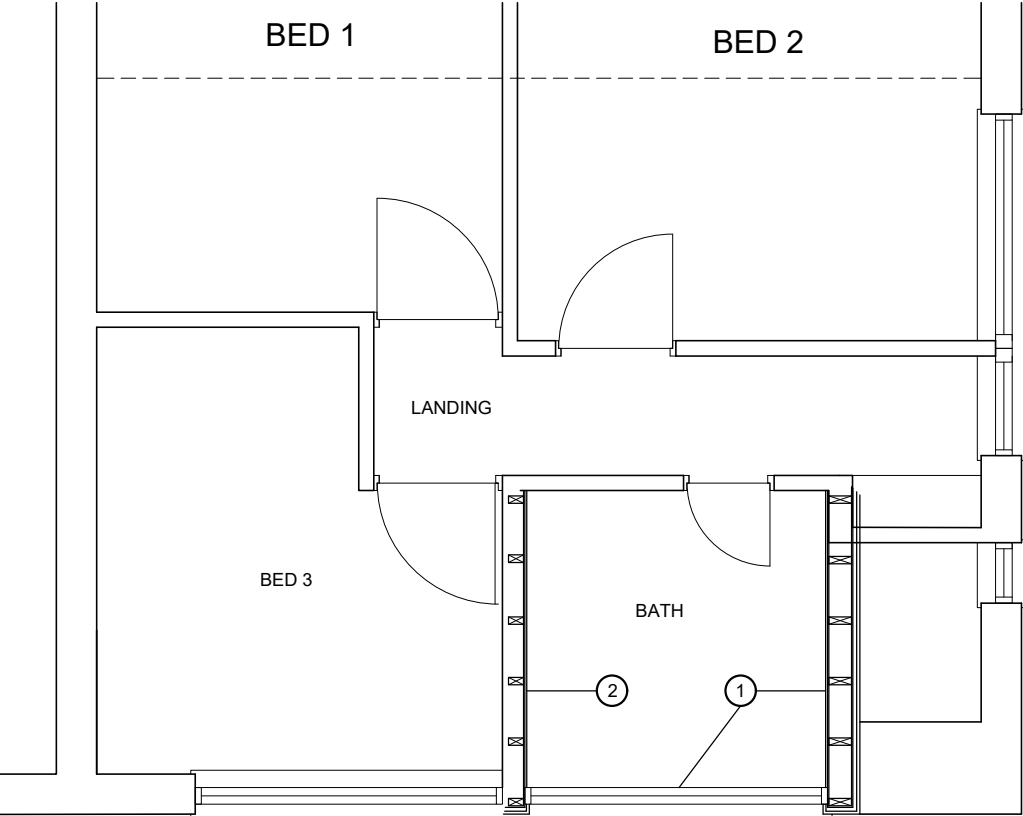
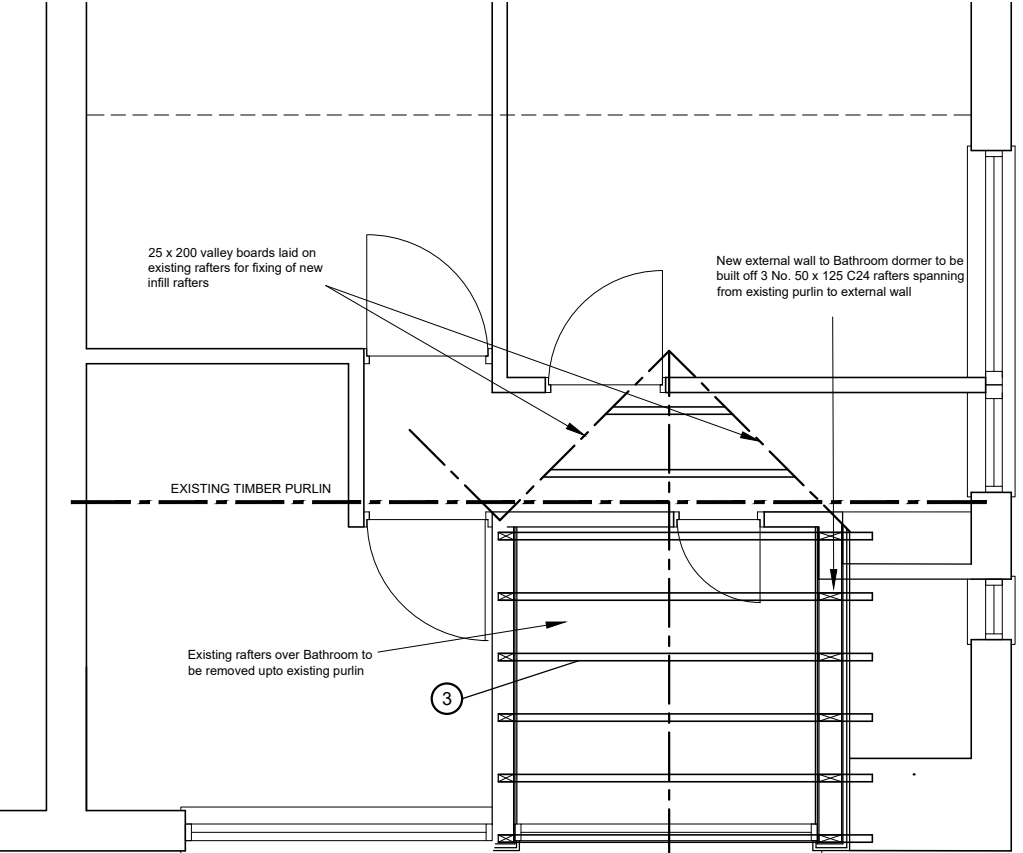
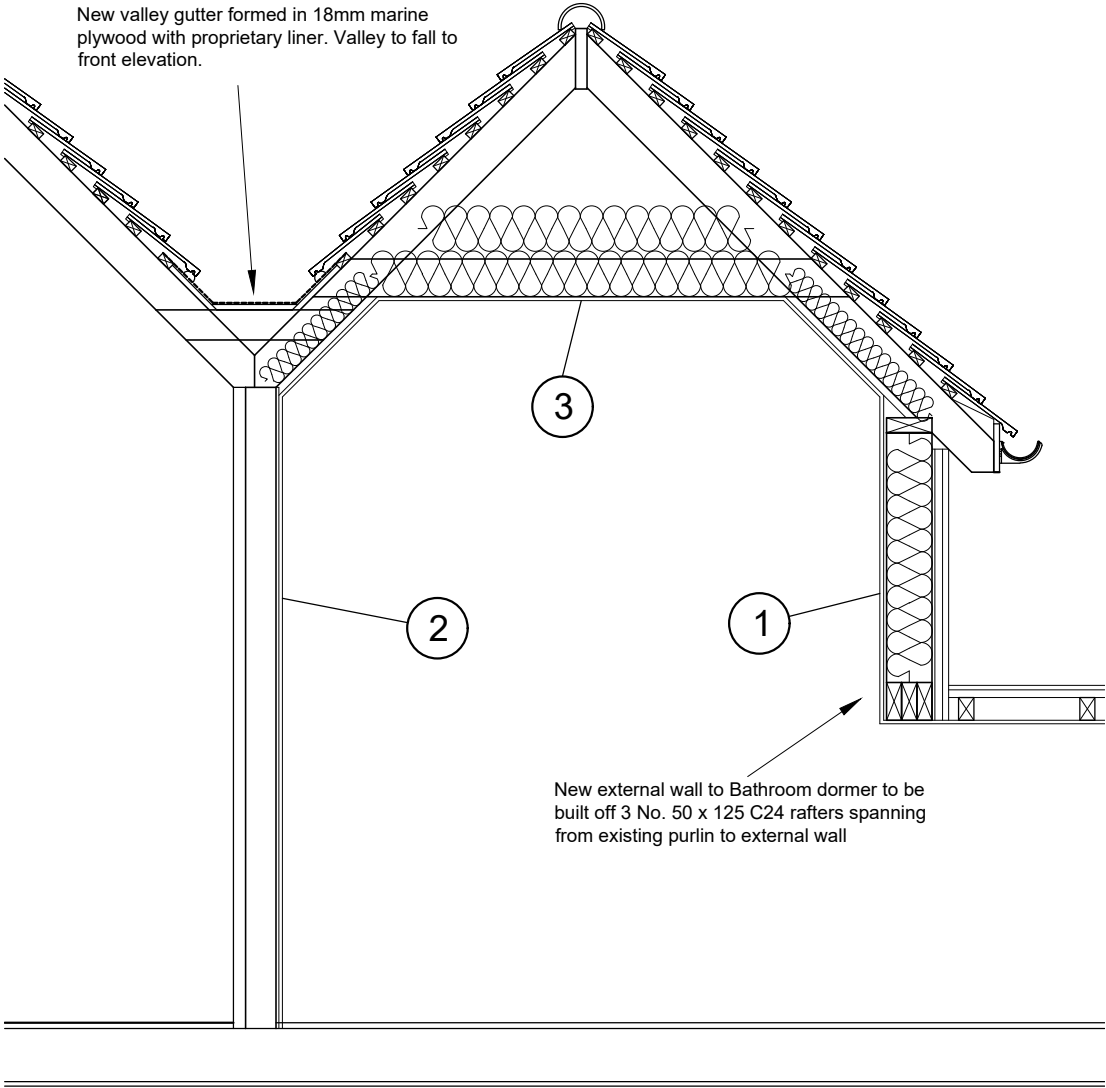




PROPOSED FIRST FLOOR PLAN
AT FLOOR LEVEL



PROPOSED FIRST FLOOR PLAN
AT ROOFLEVEL



SECTION THROUGH NEW DORMER

1. DORMER WALLS

To achieve minimum U Value of 0.28W/m²K fibre cement boarding with rendered finish hung vertically on 25 x 38mm preservative treated battens (vertical counter battens to be provided to ensure vented and drained cavity if required) fixed to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g). 9.5mm thick W.B.P external quality plywood sheathing to internal and external face (or other approved). Ply fixed to treated timber frame studs constructed using: 50 x 150 C24 studs at 400 centres. Insulation to be 150mm Kingspan Thermawall® TW55 Insulation between studs plus 35mm Kingspan Kooltherm® K18 over with 12.5mm with 3mm skim coat of finishing plaster. All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally. Rafters to have galvanised mild steel straps placed at 900 centres. Dormer cheeks within 1m of the boundary to be lined externally with 12.5mm Supalux and 12.5mm Gyproc FireLine board internally to achieve 1/2 hour fire resistance from both sides. (Provide an additional 15mm of insulation over studs to prevent cold bridging if required)

2. EXISTING WALLS

Install additional 50 x 100 C16 studs at 400 centres to strengthening existing dormer wall with 9.5mm plywood and 12.5mm plasterboard and skim finish to new bathroom

3. ROOF

Roofs to extension to be interlocking concrete slate tiles to match existing laid in accordance with the manufacturers instructions on 50 x 25 battens and a layer of Tyvek fully breathable felt. 50 x 125 C16 timber rafters with 50 x 125 C24 ceiling joists at 400mm centres. Ceiling Ties to be bolted to rafters using an M12 x 51 diameter toothplate connector. Ridgeboards to be 36 x 200 C16. Provide a min of 300 mm rockwool to horizontal ceilings in the roof spaces not used for storage with 150mm between joists and 150 mm over joists at 90 degree. Provide 75mm rigid insulation between rafters and 25mm below rafter to sloping ceilings. 12.5mm plasterboard and skim finish to ceiling. Provide 25mm continuous ventilation at eaves level via fascia board. Ventilation provided eaves to eaves. Timber or pvc to match existing, provide air vents as described.