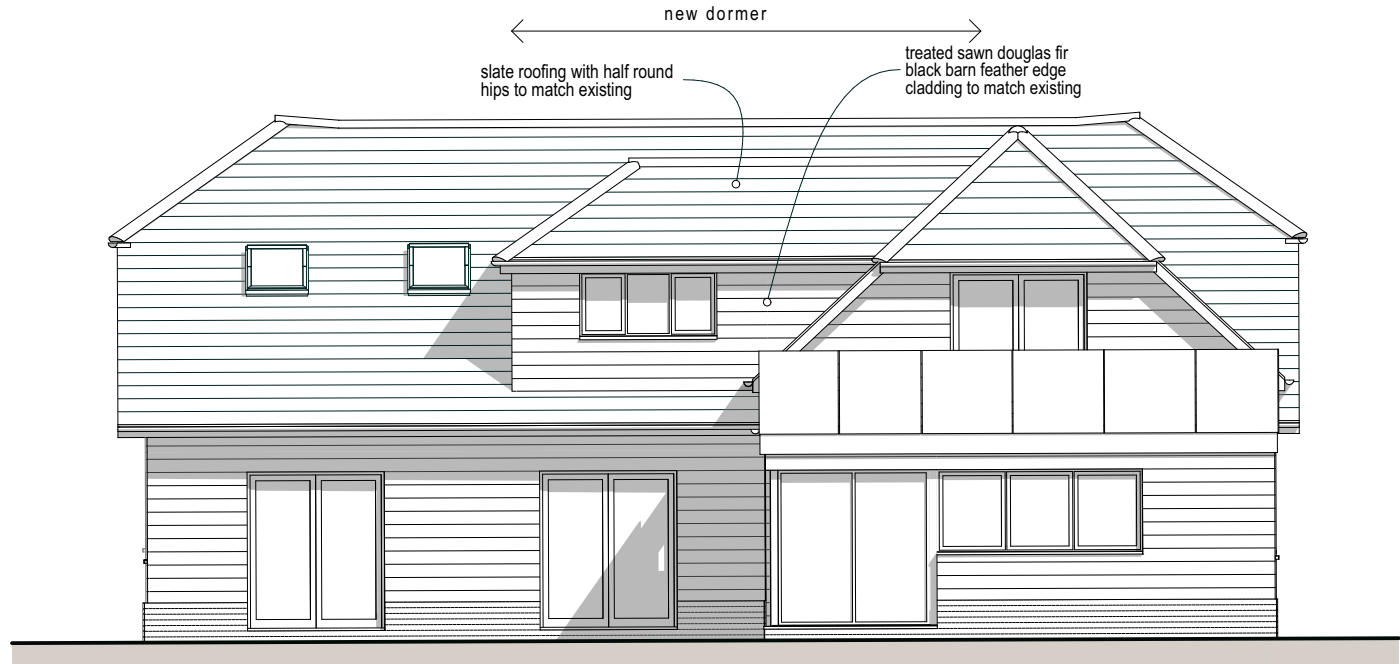




rear (north)

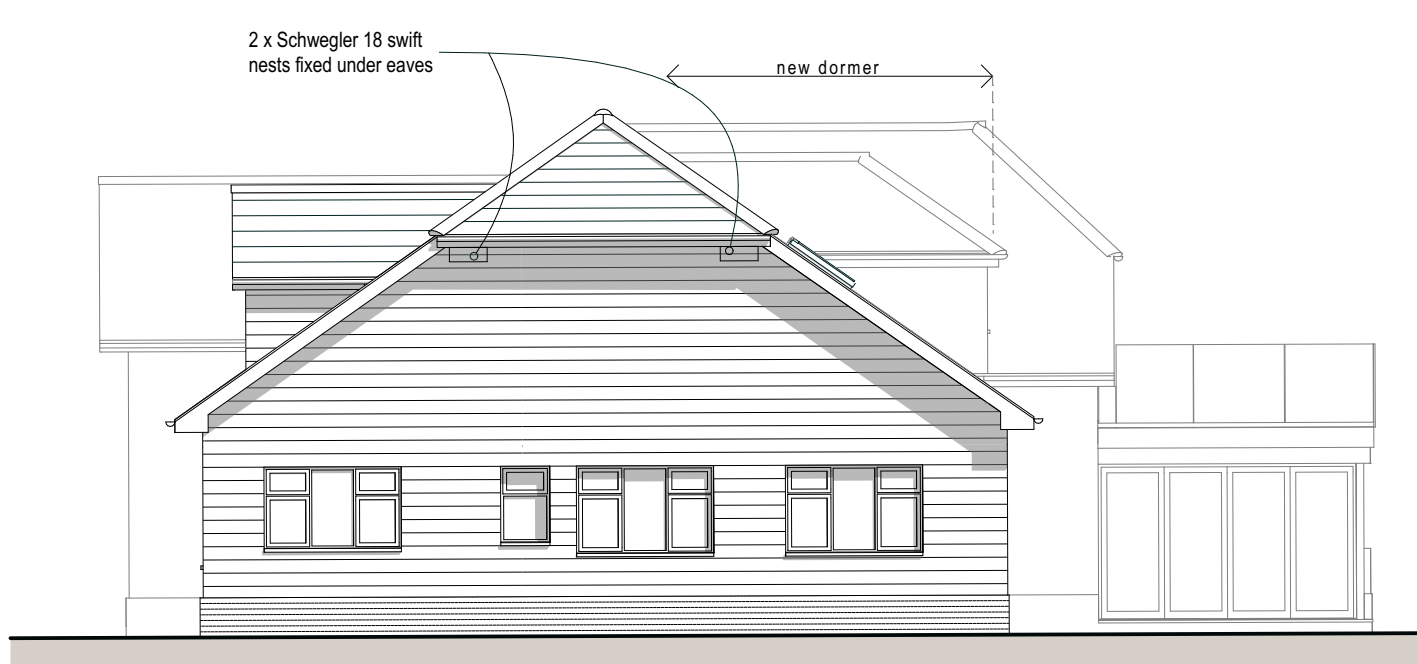
SCALE 1:100
0 2000 4000 6000mm



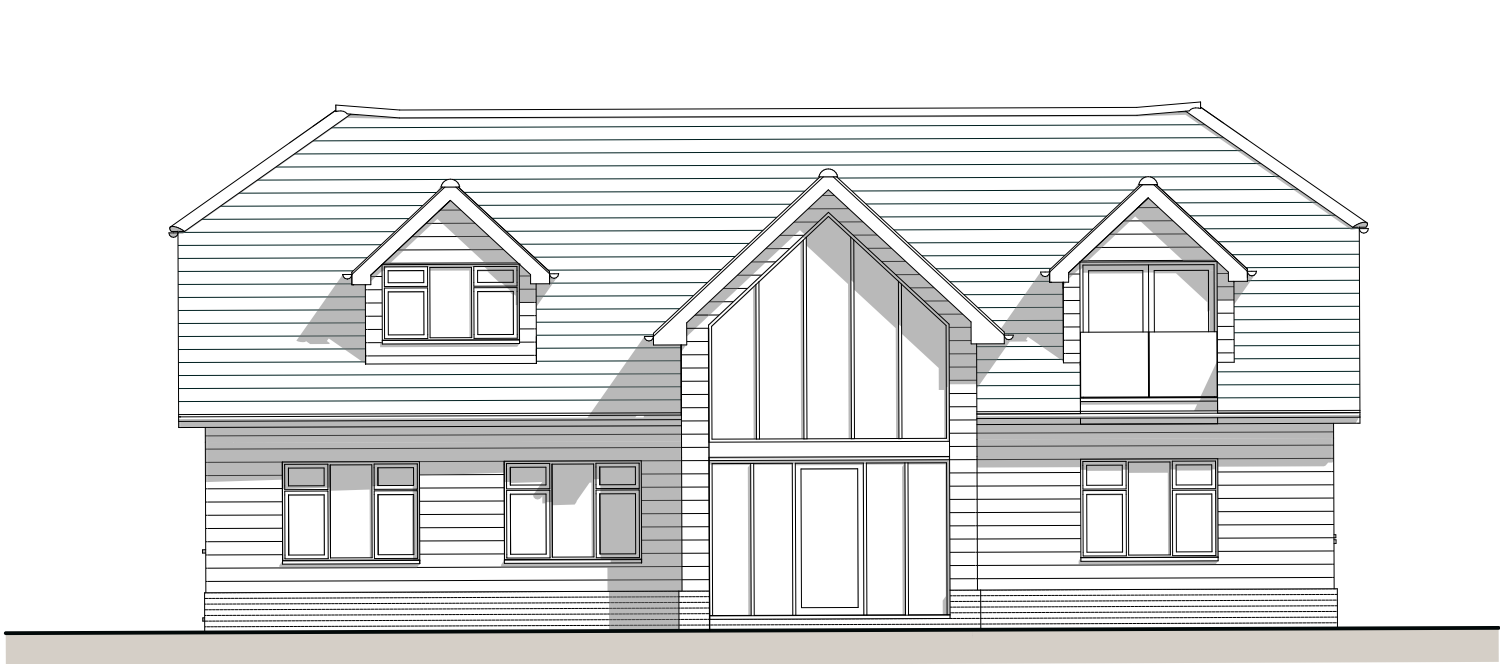
2 x Schwegler 18 swift nest fixed under eaves to east elevation



2 x Schwegler 2F universal bat boxes hung in nearby trees



side (east)

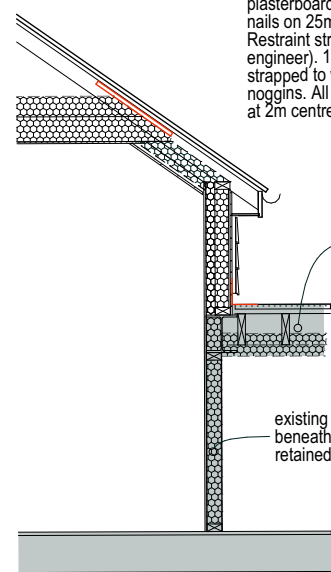


rear (south)



side (west)

WARM PITCHED ROOF
To achieve min U-value required of 0.15 W/m²K
Timber roof structures to be designed by an Engineer in accordance with NBS Technical Requirement RS Structural Design. Calculations to be based on BS EN 1995-1-1:2004 Eurocode 5: Design of timber structures (V42:2014). Roofing slates to BS5534 on 25 x 38mm treated battens on vapour permeable sarking felt to relevant BBA Certificate. Supported on 50 x 100mm grade C24 rafters at max 400mm centres. Rafter support on 100 x 50mm treated sw wall plates. Allow min 50mm air space to allow for straps of breathable felt. Insulation to be 100mm Kingspan Thermapitch TP10 between rafters and 50mm Kingspan Thermapitch TP10 under. PS 12.5mm foil backed plasterboard (joints staggered) to the underside of all ceilings using galvanized plasterboard nbs on 25mm battens for service void. Finish with 5mm skim coat of existing plaster. Restraint strapping - Ceiling joists tied to rafters (if raised collar roof consult structural engineer). 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved to BS EN 845-1 at 2m centres.

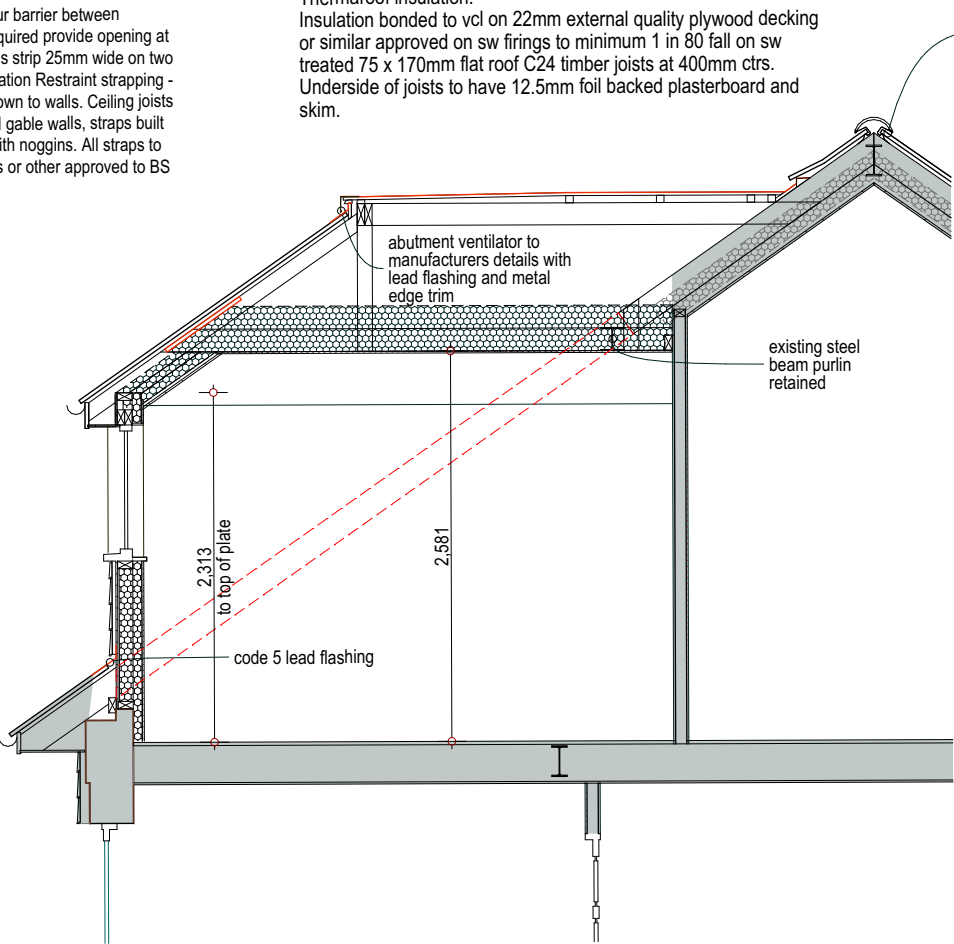


section G - G

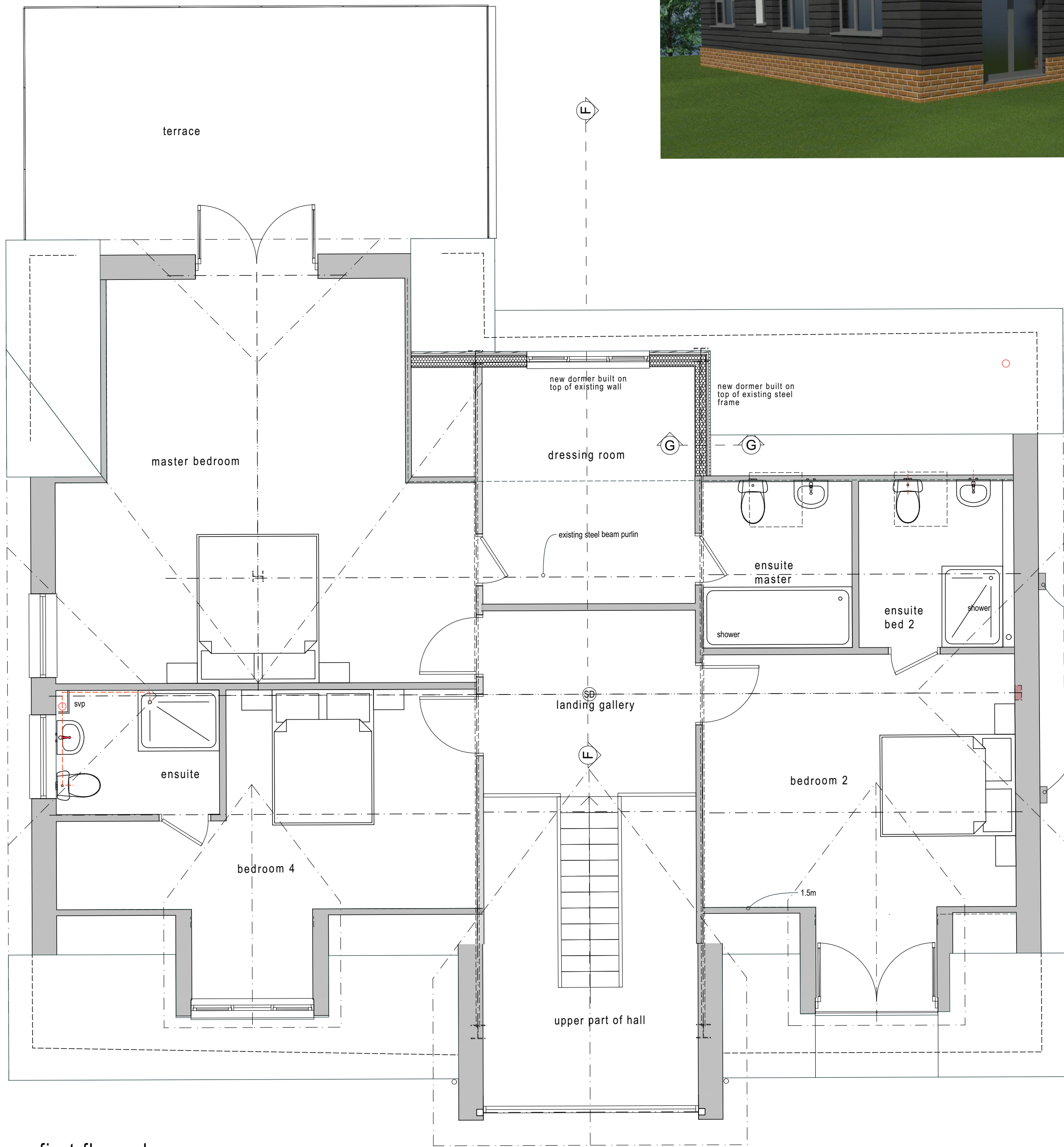
SCALE 1:50
0 1000 2000 3000mm

VENTILATED PITCHED ROOF
To achieve U value of 0.15 W/m²K
Timber roof structures to be designed by an Engineer in accordance with NBS Technical Requirement RS Structural Design. Calculations to be based on BS EN 1995-1-1:2004 Eurocode 5: Design of timber structures (V42:2014). Roofing slates to BS5534 to match existing on 25 x 38mm treated battens on breathable felt supported on 47 x 100mm grade C24 rafters at max 400mm centres. Rafter support on 100 x 50mm sw wall plates. Insulation at ceiling level to be two layers of Rockwool insulation to total 300mm laid between over joists (cross direction). Construct ceiling using sw joists at 400mm centres, finished internally with 12.5mm plasterboard and min 3mm trussle multi-finish plaster. Provide polythene vapour barrier between insulation and plasterboard. Where required provide opening at eaves level at least equal to continuous strip 25mm wide on two opposite sides to promote cross-ventilation. Restraint strapping - 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1200 x 30 x 5mm galvanized straps or other approved to BS EN 845-1 (V41:2016) at 2m centres.

WARM FLAT ROOF
To achieve U value 0.15 W/m²K
Flat roof to be Polyroof 185 or similar approved grp roofing providing as fire rating for surface spread of flame with a current BBA or WIMLAS Certificate and laid to specialist specification. Roofing to be fixed to 18mm plywood decking 150mm Kingspan Thermafloor insulation. Insulation bonded to vci on 22mm external quality plywood decking or similar approved on sw firings to minimum 1 in 80 fall on sw treated 75 x 170mm flat roof C24 timber joists at 400mm ctrs. Underside of joists to have 12.5mm foil backed plasterboard and skim.

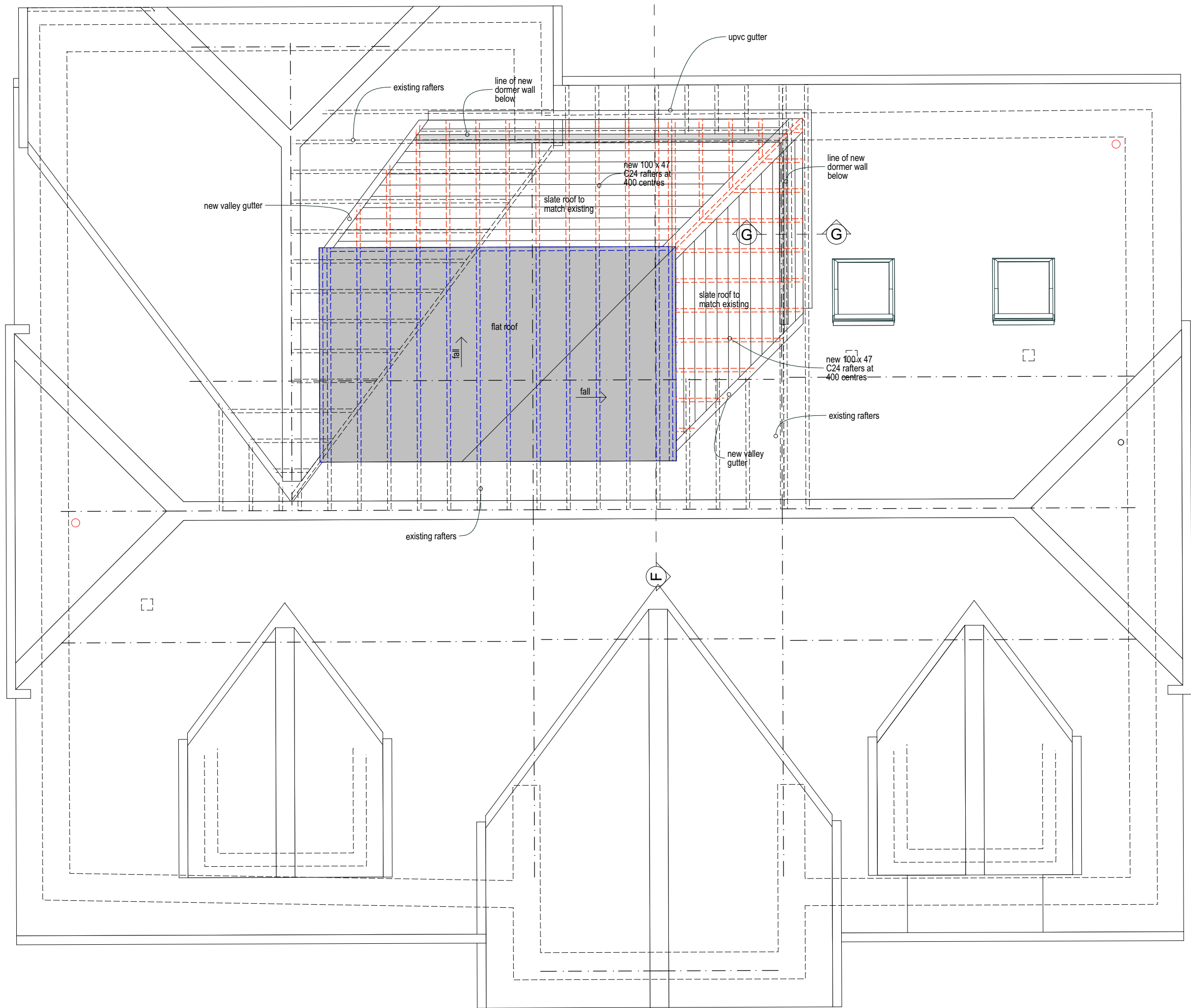


section F - F



first floor plan

SCALE 1:50
0 1000 2000 3000mm



roof plan



Client **Thomas Male**

Project **Alterations
Elm Paddock, Horsemere Green Lane
Climping, Littlehampton
West Sussex BN17 5QZ**

Drawing Title **Plans & Elevations as proposed**

Drawing **CND35_SK01** Rev **C**
Date **Jan 2025** Scale **1 : 50, 100@ A1**