UNVENTED NEW PITCHED ROOF

Pitch 17° (imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)

To achieve U-value 0.15 W/m²K

Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design.

Calculations to be based on BS EN 1995-1-1.

Roofing tiles to match existing on 25 x 38mm tanalised sw treated battens on breathable sarking felt to relevant BBA Certificate. Supported on NOMINALLY. 47 x 150mm grade C24 rafters at max 400mm centres max span 3.47m. Rafters supported on 100 x 50mm treated sw wall plates.

Allow min 20mm air space to allow for drape of breathable felt.

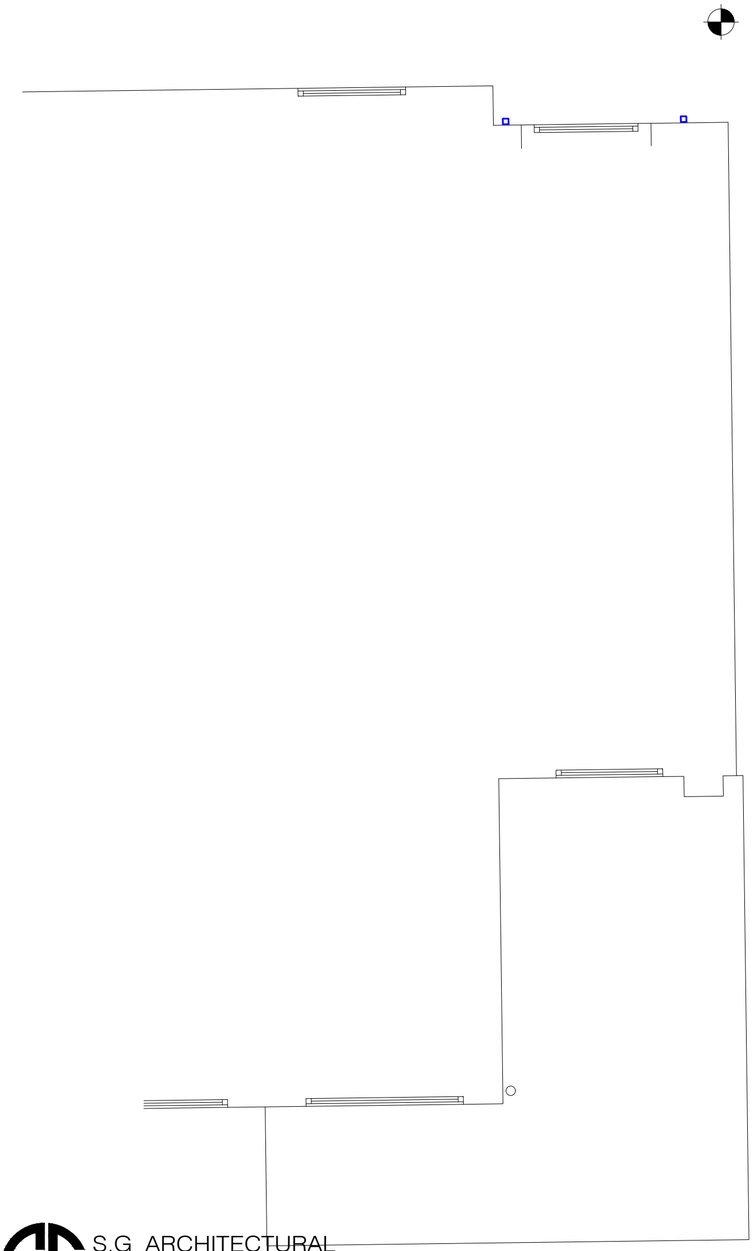
Insulation to be 130mm Celotex XR4000 between rafters and 50mm GA4000 under.

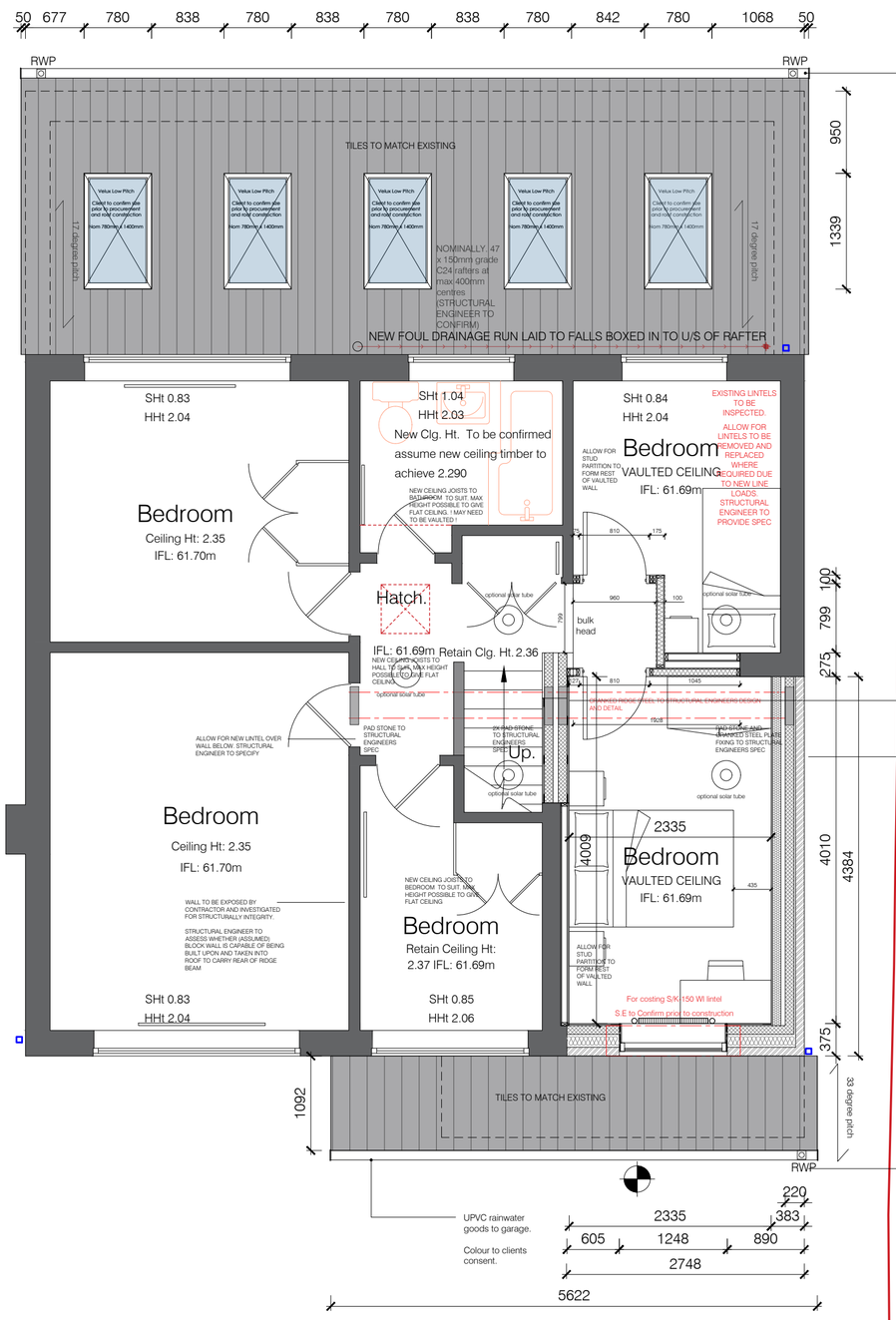
Fix 12.5mm foil backed plasterboard (joints staggered) to the underside of all ceilings using galvanized plasterboard nails.

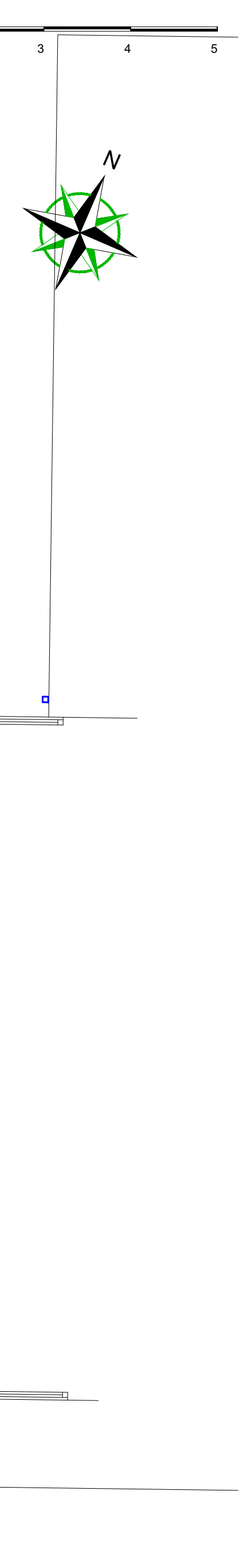
Finish with 5mm skim coat of finishing plaster.

Restraint strapping - 100mm x 50mm wal plate strapped down to walls. 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 BSEN 845-1 at 2m centres.

THIS STRUCTURAL DESIGN IS INDICATIVE - ENGINEERS DETAILS/CALCULATIONS ARE REQUIRED DO SPECIFY STRUCTURAL ELEMENTS FROM THIS SPEC.







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07 - PROPOSED FIRST FLOOR LAYOUT - A2 - 1-50

SG PROJECT NO.	PAPER SIZE	DRAWN BY
402	A2	SG
REVISION	SCALES	1:50
PLANNING		

YOUT

Drawing measurements shall not be obtained by scaling. Verify all dimensions prior to construction. Immediately report any discrepancies on this document to SG ARCHITECTURAL DESIGN.

REV.	DESCRIPTION	DATE	BY	CHK'D

BOUNDARY LINES
- THE TOPOGRAPHICAL SURVEY IS GPS SCANNED - THE RED LINE SHOWN IS THE LEGAL OS BOUNDARY
- THIS IS 100% ACCURATE
- ACTUAL MATERIAL BOUNDARIES VARY TO OS MAPPING NORMALLY

First Floor Plan