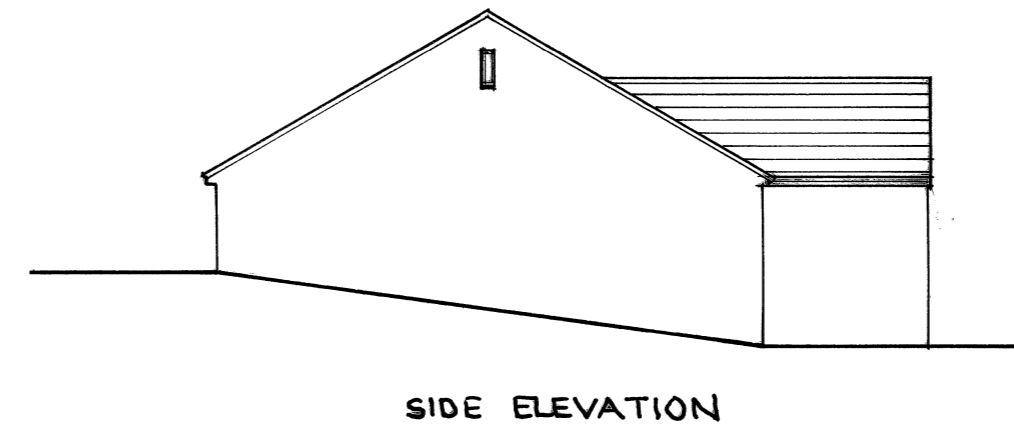
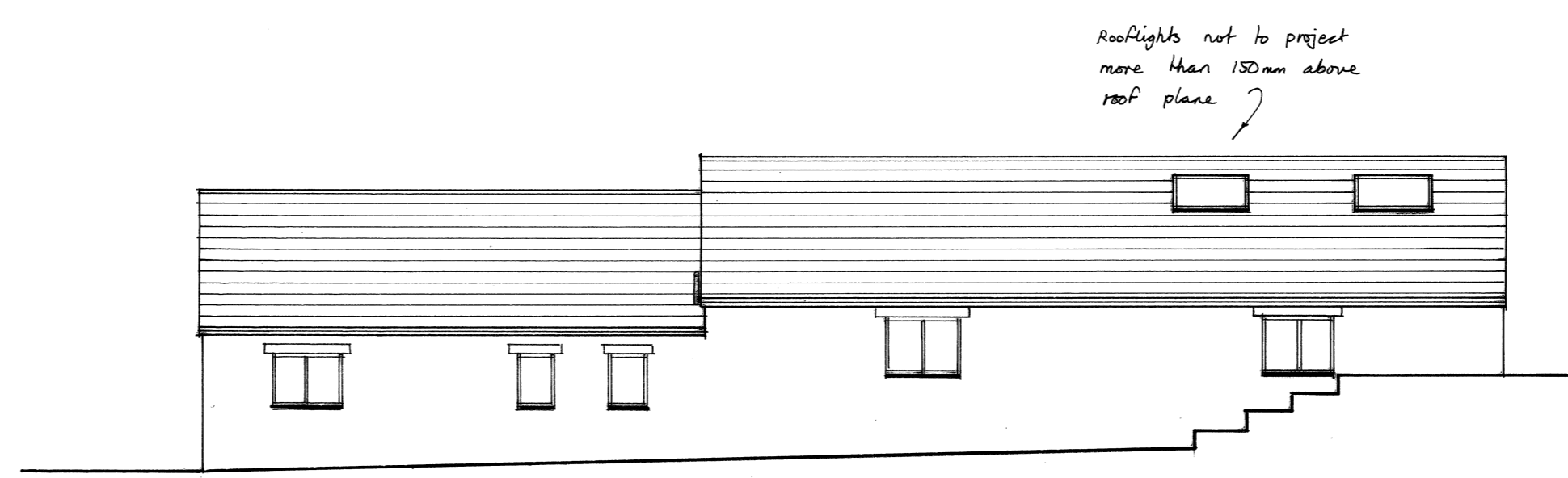


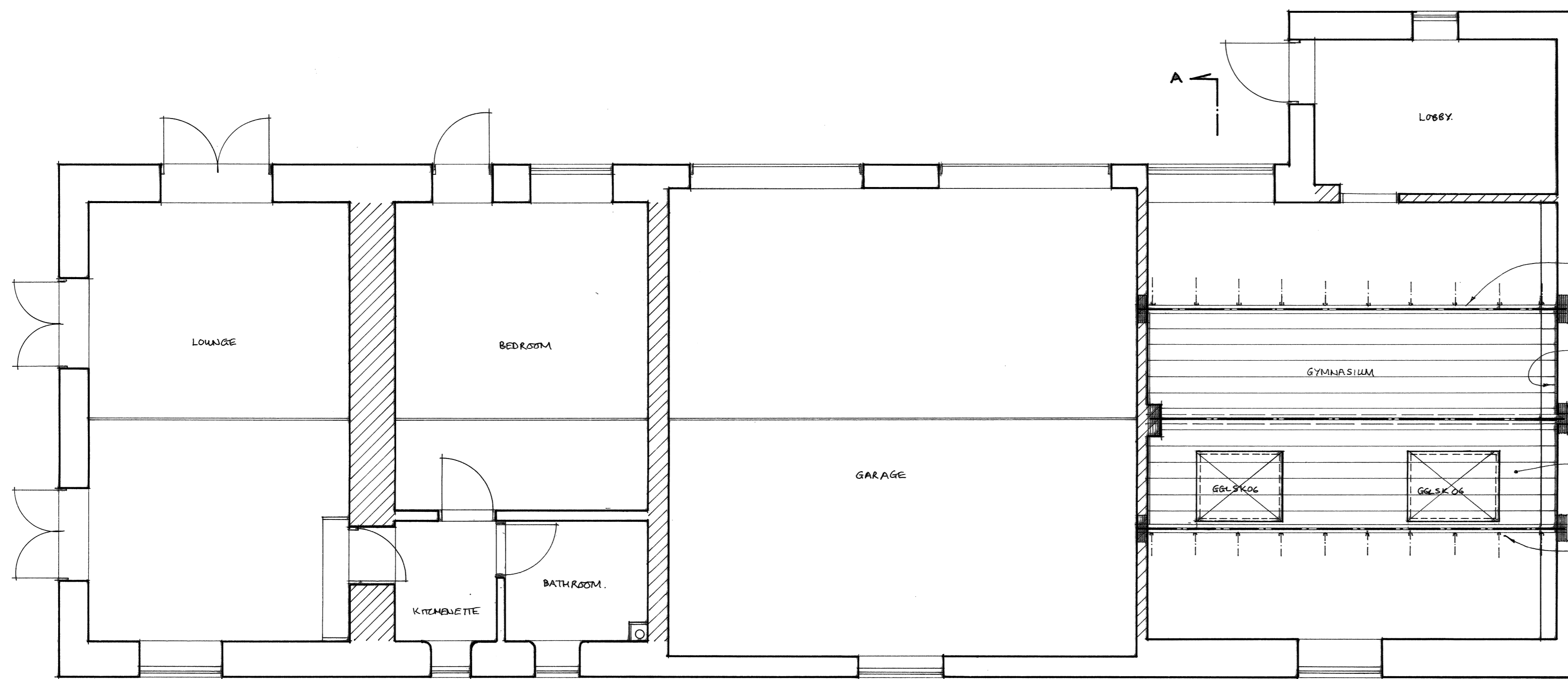
SECTION A-A



SIDE ELEVATION



REAR ELEVATION



GROUND FLOOR PLAN

All internal load-bearing walls shaded thus.

75x50mm insulated shudding @ 400 c/s (SEE SECTION).

380x100x15 m.s. plates (Both ends)

Line gable walls with 35mm Gypoc. Thermaline plus.

New slit windows (450mm x 150mm) windows.

Roofslope in endy roof shaded thus.

Re-support endy ceiling joists from new floor studs.

**SPECIFICATION**

**DORMER ROOF CONSTRUCTION (U=0.18W/m K)**  
12.5mm chippings on 3 layers bituminous felt on 18mm plywood on 50 x 50 s.w. battens across firings (1 in 40) on s.w. joists @ 400mm c/s. 50mm Celotex insulation between and 30mm TLX Multifoil insulation/vapour barrier across underside of joists. Fixed with 38x25mm counter battens @ 600 c/s with 12.5mm duplex plasterboard & 5mm plaster skim ceiling.

**DORMER CHEEK CONSTRUCTION (U=0.28W/m K)**  
(Half hour fire resistant on both sides). Vertical tile/slate hanging to match existing on s.w. battens on building paper on 12.5mm plywood bracing (9mm masterboard within 1m of boundary) on 100x50mm studs @ 400mm c/s (cross braced). 50mm Celotex insulation between and 30mm TLX Multifoil Insulation/vapour barrier across inside of studs fixed with 38x25mm counter battens @ 600 c/s with 12.5mm duplex plasterboard & 5mm skim ceiling.

**STAIRCASE**  
Rise=200mm. Going=225mm. Tread=250mm. Flight=2.2m clear. Headroom. 900mm handrail. 900mm balustrade housed into newells or returned to adjacent wall. (100mm max gap to risers & handrails) Artificial lighting with 2 way switch top and bottom. Any tapered Treads to comply with Part K. 50mm min nosing.

**HALF HOUR PARTITION AROUND NEW STAIRCASE**  
75x50mm studing with 12.5mm duplex plasterboard & 5mm skim to both sides to give full half hour fire resistance.

**FIRE REGULATIONS**  
All doors at ground and first floor of staircase enclosure to be 1/2 hour fire resistant (FD30S).  
Timber beams to have half hour fire resistance to BS5268 part 4 section 41 1078 (Sacrificial design method)

**WINDOWS & ESCAPE WINDOWS**  
Escape window to be 700x500mm min clear opening (min 0.33m opening area) max 1.8m above floor level. All new windows and rooflights to be double glazed with min 16mm gap, low E glass & N=0.15 for windows, g=0.05 for rooflights.

**STRUCTURAL**  
Multiple timber trusses to be bolted together @ 600mm c/s using M12 bolts and 40mm dia tooth plate connectors.

**SMOKE DETECTORS**  
Denotes fire detector. Denotes mains wired interconnected smoke detector with battery back up to BS5839-6:2004.

**LIGHTING AND HEATING**  
Three low power lights to be energy efficient type. Extend existing Heating system to new rooms with zone and boiler interlock controls (Thermostatic Valves).

**ELECTRICAL**  
All electrical work to be in accordance with Part P 'Competent Person Scheme' to BS7671. Certification to be provided upon completion.

**PROJECT**  
Forming vaulted ceiling with 2NP rear facing valley rooflights to existing Gymnasium.

**CLIENT**  
Mr & Mrs Baker,  
"Waterloo Barn",  
Loughton Hill,  
Stonesfield,  
OX29 8DY.

SCALE 1:50 & 1:100 DATE SEPT 2021  
DRAWN BY *MWS/Andy* CONTRACT NO.

THE ACCURACY OF THIS DRAWING FOR FINISHED SIZES IS NOT GUARANTEED AS IT IS SUBJECT TO ON SITE LEVELS. THEREFORE IT DOES NOT FORM PART OF YOUR CONTRACT

**Charles Grosvenor**  
Tel :- 01527 543668  
www.charlesgrosvenor.co.uk

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1:50 SCALE  
0 1m 2m 3m 4m 5m 6m  
0 1 2 3 4 5 6 7 8 9 10 11 12 METRES