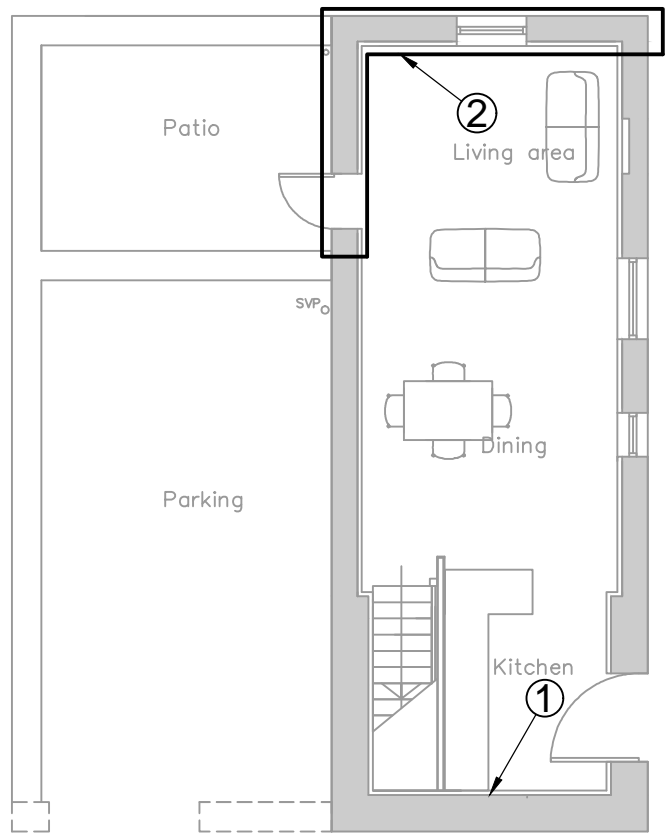
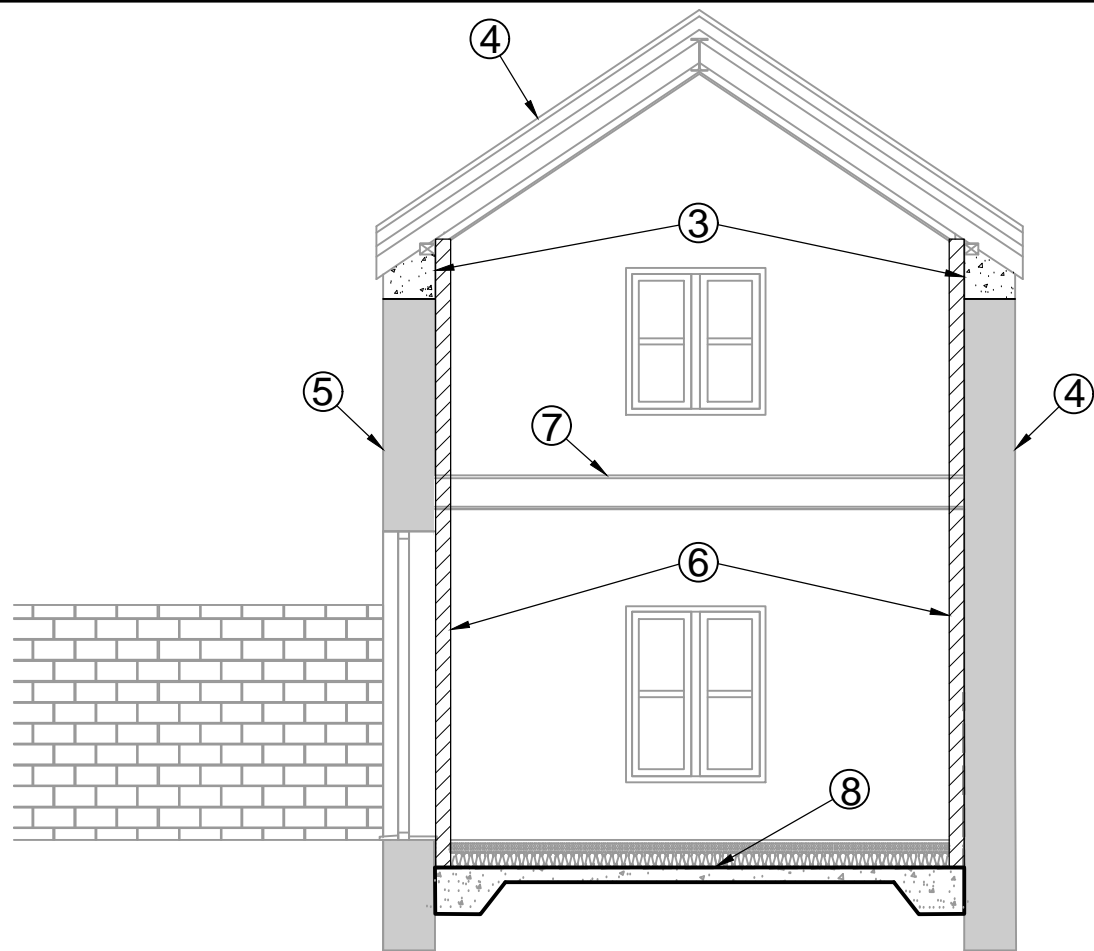


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Plan  
Scale 1:100



Section  
Scale 1:50

Structural method statement for long term stability and conversion of barn to domestic accommodation

1. Bulging end wall between Ground and First floor to be stabilized by minimum 150 thick C28/35 concrete facing with mesh reinforcement tied to face of existing wall with pocket out into return walls.
2. Existing unstable external wall to be taken down and rebuilt to match the existing on new foundation to approval of Building Inspector.
3. Top courses of stonework on existing walls to be taken down and rebuilt with in-situ C28/35 reinforced concrete capping on inside for wallplate bedding.
4. Existing roof to be reconstructed to match the existing with ridge purlin. Rafters to be securely fixed to new internal load bearing frame and new wallplate on top of external walls.
5. Existing walls to be made good by replacing defective lintels and pointing to match existing to approval of Conservation Officer. Walls to be tied to new internal load bearing skin. Underpinning not required.
6. New internal load bearing skin in either 100x50 timber studs or 100 thk. 7.0 N/mm<sup>2</sup> blockwork tied to external walls. Insulation and damp proofing to Architects details.
7. New First Floor of 150x75 C24 joists at 400 crs. or equivalent spanning between new internal load bearing skins. Minimum 18 thk. plywood nailed to top of joists as lateral stability diaphragm.
8. New Ground Floor to be reinforced concrete raft slab on mechanically compacted MOT Type 1 stone founded on ground to Building Inspectors approval, suitable for minimum 50 kN/m<sup>2</sup> (eg. soft/firm clay). Insulation and damp proofing to Architects Details.

Client	Mr & Mrs Longson				
Project	The Barn, Banksfield Farm, Charlesworth				
Title	Barn Conversion Proposed structural method statement				
By	Chkd	Date	Scale	Drg No	Rev
AR	PRG	07/03/16	1:100 on A3	D19116-01	x

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