

Enclosing elements specification:

**Floor** - Target U value 0.21W/m²K - Existing concrete floor slab on DPC overlaid with 70mm Celotex insulation overlaid with 500 gauge polythene VCL and 18mm t. and g. flooring grade chipboard with PVA adhesive joints and battens at door thresholds and partitions; floor finish to client specification using engineered laminate flooring allowing for expansion gap all round as manufacturers recommendations with temporary wedges until the adhesive has set.

**Existing Stone Walls** - Target u value 0.28W/m²K - Existing stone walls lined on inside face with Gypframe adjustable brackets screw fixed to face of stone wall to provide min. clear 50 mm air space to stone face of existing wall and supporting metal stud wall lining incorporating 40m thick Celotex insulation and finished with 38mm Gyproc Thermaline insulated plasterboard (25+12) fixed to face of metal studs.

**New build stone walls** - Target U value 0.28W/m²K - New concrete block cavity wall with up to 300mm reclaimed stone facing all built off new 225mm thick concrete foundations with 125mm clear cavity incorporating 75mm thick partial fill insulation, wall finished internally with dry lined plasterboard system.

**Roof** - Target U value 0.18W/m²K - 80mm thick Celotex insulation inserted as tight friction fit between rafters with clear air space to underside of breathable under slate membrane and finished with Gyproc Thermaline insulated plasterboard (25+12) fixed to u/s of rafters.

**Glazed Windows and Doors** - Target U value 1.4W/m²K in timber or aluminium as shown.

Chimney stack constructed with facing brick and clay pot to replicate original detail on farmhouse prior to collapse.

New slate roof to barn to match farmhouse at same line and level with breathable underslate membrane over new loose rafter and purlin roof structure with Structural Engineer designed feature timber truss all to replace existing, making good existing stone wall top to provide bearing for new wall plates.

Replacement roof to barn to be constructed to same line and level as existing farmhouse.

Masonry retaining wall with render finish and stone coping incorporating weep holes and surface water relief drain, all as detailed on Structural Engineer drawing D1588/Sk.08 dated 25.02.21.

External stone paved area at rear of barn laid to min. fall away from building to gullies shown on site plan.

Tanking to rear wall below external ground level using Sovereign Chemicals Hey'di K11 system to a height of 500mm above external ground including single coat over floor slab with mortar angle fillet, trim existing underslab DPM to top of slab level.

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SECTION B -- B

REVISIONS:  
A. 2021-03-18 Planning application.

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Proposed refurbishment of farmhouse and conversion of adjacent barn.

drawing title:  
Proposed sections

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Planning

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