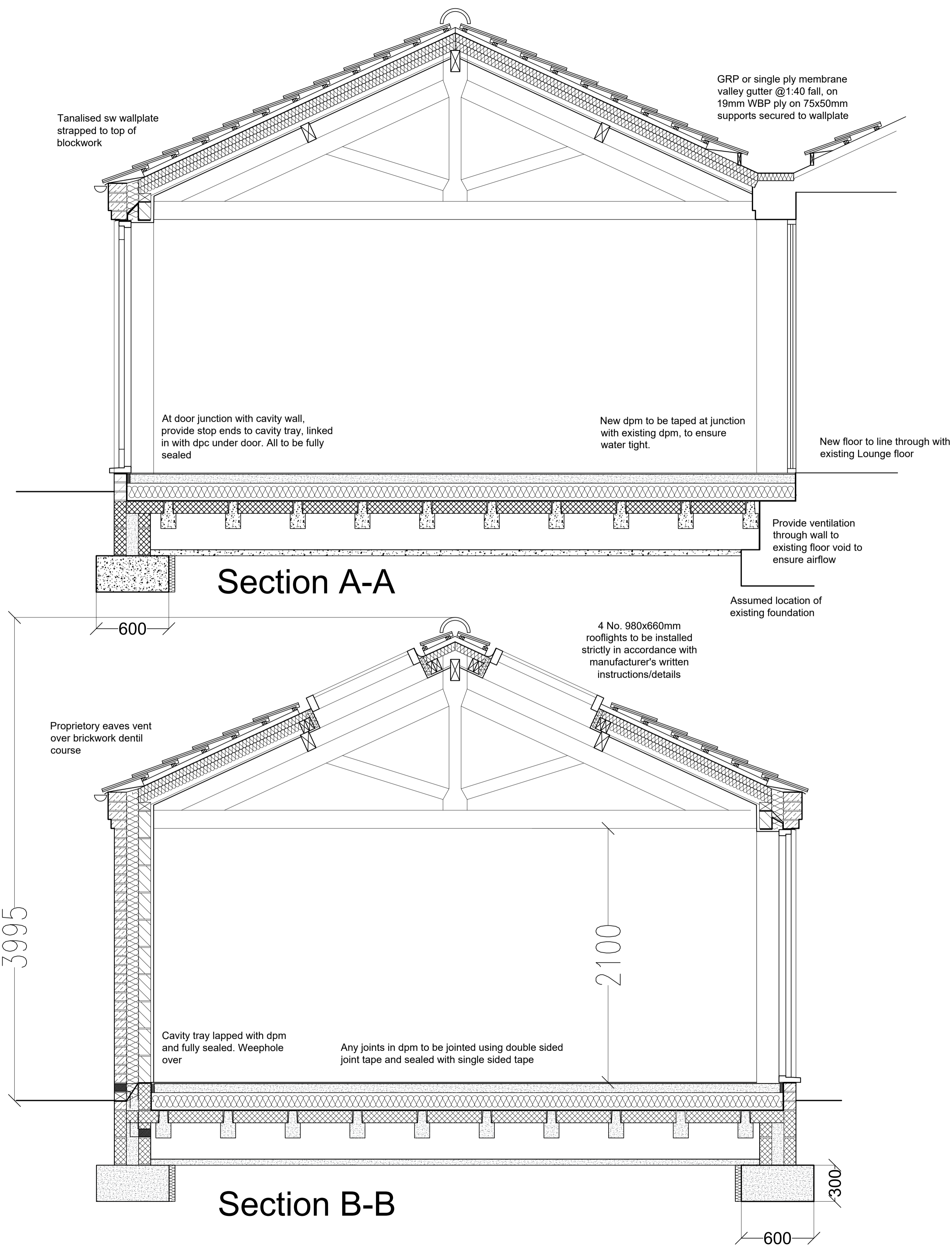


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**Excavation**

Carry out excavations to receive strip foundations to a depth of 750mm below finished ground level, to a width of 600mm for all cavity walls and 400mm for load bearing single leaf internal walls. (Depth is provisional and will depend upon ground conditions - subject to approval by L.A. Building Control Officer).

**Foundations**

Lay 21N/mm<sup>2</sup> trench fill concrete foundations to all load bearing walls. Depth to be 300mm. Subject to approval of LA Building Control Officer on site. In clay subsoil, clay boards should be provided to the sides of the foundations and advice of a structural engineer should be sought.

**Ground Floor**

75mm fibre reinforced sand/cement screed (1:3), on vapour barrier on 100mm Kingspan Kooltherm K3 Floorboard insulation, on Monarflex RMB400 radon barrier membrane, fully lapped and sealed to all dpcs/ cavity trays, on concrete beam and block floor, designed and supplied by specialist. Drawings and calculations to be forwarded to LA Building Control for approval, 21 days prior to installation. Provide dpc to underside of beams. Provide Ryton or similar telescopic vents at max. 2m centres around perimeter. Vents externally to match colour of brick walls. Provide a minimum of 150mm vented void, treat ground with weed killer and blind with min 25mm weak mix concrete. Provide vertical edge insulation strip around floor screed perimeter, to prevent cold bridging. Max 'U' value of floors to be 0.12 W/m<sup>2</sup>K.

Note: All ducts, vents, pipes etc penetrating the membrane to be fully sealed to provide full radon protection.

**Walls**

Construct external cavity walls, consisting of:

**Below DPC level**

100mm class 'A' concrete block internal and external skins, 100mm cavity filled with lean mix concrete, slanted to outer face. 3 courses of engineering brick below dpc level. Provide fully lapped and sealed dpc/ cavity tray with uPVC weepholes over in location indicated, min 150mm above finished ground levels.

**Above DPC Level**

External leaf of 102mm facing bricks, to match existing, to Local Authority approval. Allow for a 100mm cavity insulated with 100mm Rockwool full fill cavity insulation, strictly in accordance with manufacturer's recommendations, to achieve a minimum 'U' value of 0.18W/m<sup>2</sup>K. Gable insulation to be taken up to underside of roof verge. Fix securely to blockwork leaf, ensuring that edges are not damaged. Boards should be close butted and taped at horizontal and vertical joints. Joints between boards must be kept clean and dry and free of mortar droppings, grout and other debris. Insulation to be carried up to window board level. Store, handle and install to BS 8000.

100mm 3.5 N/mm<sup>2</sup> blockwork inner leaf with 12.5mm plasterboard dot and dab and 3mm skim finish.

Cavity wall ties to be Ancon 225mm RT2 stainless steel to other walls, at 750mm centres horizontally and 450mm vertically and at 225mm centres vertically at jambs of windows and doors. Ties to be angled downwards to external leaf. To be fixed in accordance with BS 8000: Part 3, clause 3.4.3. Provide steel beam of large bi-fold doors, to Engineer's design. Provide insulated Birtley CB90 lintols over other openings. All lintols to have min. 150mm end bearing.

Provide Thermabate or similar insulated cavity closers at all door and window openings, installed strictly in accordance with manufacturer's instructions. All apertures and cavity tray to incorporate weepholes every third perpend.

**Movement Joints**

10mm movement joints are to be incorporated at junction with existing building. Movement joint is to be filled with foam, polythene strip backing and to have Arbokol 2000 two part polysulphide pointing with debonding agent.

**Roof**

Provide roof covering, consisting of pantiles to match existing, on 38 x 25mm tanalised sw battens on Tyvek Supro breathable membrane, laid strictly in accordance with manufacturer's instructions and in accordance with BS 5534:2014. Ridge tiles and all fixings and accessories to be provided by contractor. All roof junctions and abutments to be formed in Code 4 lead. All to LDA recommendations.

75 x 100mm wall plate, strapped to wall with 30 x 5mm stainless steel roof anchors at 1200mm centres, turned down cavity 1000mm and into blockwork 75mm.

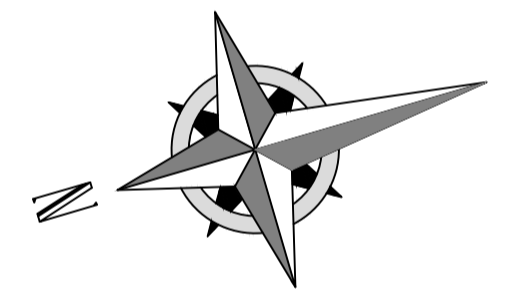
Provide treated 47 x 100mm SC24 rafters at 400mm centres on 75 x 150mm SC24 purlins.

Provide oak king post timber truss in position indicated on floor plan and section, to specialist's design. Install padstones to ends of trusses to Structural Engineer's design.

Fit min 60mm Kingspan K7 insulation between and over rafters All to achieve a maximum 'U' value of 0.18W/m<sup>2</sup>K.

Provide 18mm plywood bracing to u/s of rafters, fixed strictly in accordance with Structural Engineer's details and 12.5mm plasterboard with skim finish. All joints to be taped and sealed.

All timbers to be tanalised.



Rev	Note	Date
A	Overall height added	25.7.22



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Project  
Proposed Extension,  
20, Nocton Park Road  
for Mr and Mrs Whaley

Drawing	
Sections	
Scale 1:100 @ A1	Date May 2022
Status Building Regs	Drawn by C. Duncan
Drawing no. 2202/11A	