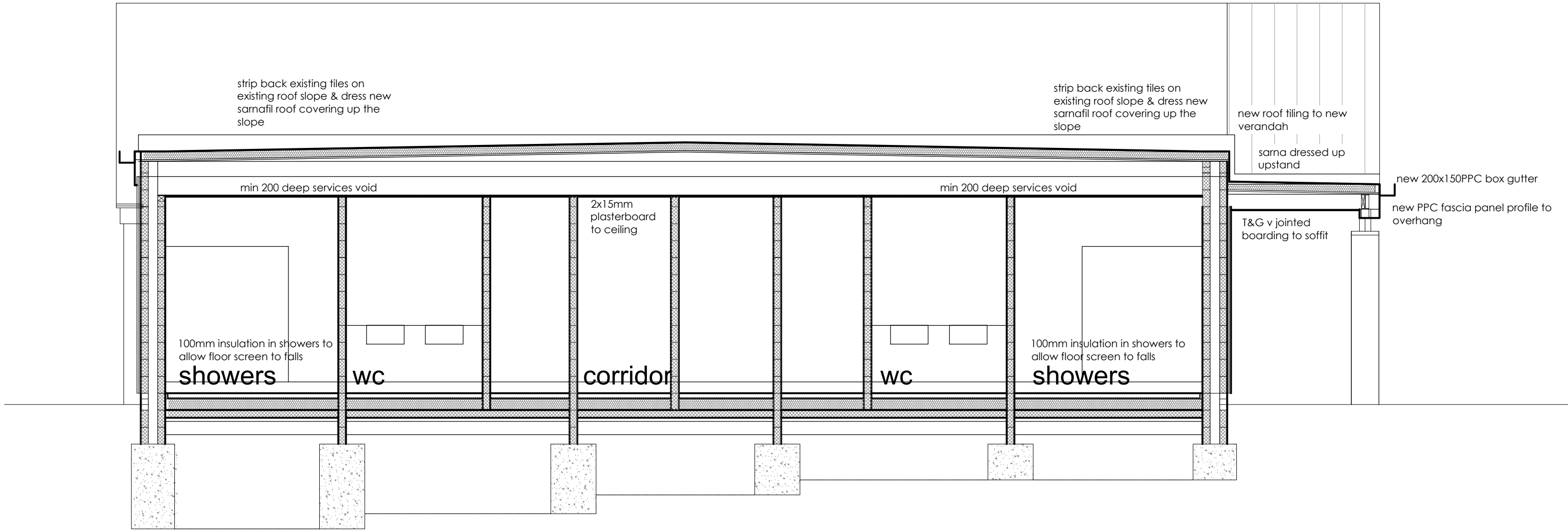


SECTION C-C



SECTION B-B

FOUNDATION - Trench Fill

Minimum 600mm wide trench fill foundation as indicated under all load bearing walls excavated to at least 1m below finished ground level (Minimum requirement of Part A). Refer to structural engineers drawings

Depth to be checked on site and increased as necessary to suit local ground conditions and the presence of mature trees or trees to be removed. All foundations to the approval of the Building Inspector, and should be determined in accordance with the NHBC Standards handbook Section 4.2

Foundations to be designated mix GEN1 or ST2 with consistency S4

FOUNDATIONS - Underpinning

Underpinning to Engineers details where footings do not extend to suitable depth to avoid undermining.

HEAVE PROTECTION

Heave protection may be required where generally foundations exceed 1500mm below ground level. Subject to local ground conditions with high shrinkage soils; where significant vegetation is adjacent or has been removed as part of the work; or where required by warranty. Heave protection to be to the approval of the Building Inspector and/or warranty provider (if applicable) refer to figure 4 of Section 4.2 of the NHBC standards handbook.

EXTERNAL WALL 325mm BRICK FACED CAVITY MASONRY DENSE AGRIGATE CONCRETE BLOCKS.

(See Elevations for the different Facings and finished of the Proposed. Vertical larch timber clad finish exterior wall to be built up with an internal and External leaf of 100mm3.3N aggregate blockwork.)

Facing Brick exterior wall construction as below:

- 102.5mm approved facing brickwork outer skin
- 125mm cavity
- full fill mineral wool with k value 0.032 (i.e. Crown Dritherm 32 cavity bats)
- 100mm 3.6N aggregate blockwork
- 12.5 plasterboards on dabs and mechanically fixed to wall with skim coat
- internal finish to clients specification

to achieve
U-Value of 0.21 W/m²K

Note: Varying the above specification will change the U-Value

General Specifications

Below ground, use brickwork to meet F2 and S2 designation. Brick to be selected and agreed with the building inspector. Concave mortar joints to BS EN 1996:1-1 sulphate resisting. Brickwork bond from foundation level to 150mm above ground level to match existing. Blocks below ground level to be 7.3N Dense Aggregate or similar and approved and suitable for below ground level use.

Mortar mix above and below DPC to be 1:3 (cement:sand) and above DPC 1:1:6. Colour and joint type to match existing.

Brickwork expansion and blockwork contraction joints in all masonry walls to be as manufacturer's recommendations.

Wall insulation to be continued at least 215mm min. below the DPC and underside of slab/screed (or 215mm min. below top of beam if suspended beam and block floor) and supported on row of ties if needed. Insulation to extend to the top of the external wall including the gable end.

External Wall continued:

Suitable cavity wall ties to the new external walls are to be fitted at 750ctrs horizontally and 450 ctrs vertically, and 300 ctrs vertically within 225 from all openings with unbonded jambs, Ancon or similar and approved to BS8298-2:2010, ADA and in accordance with the manufacturers information. 10mm movement joints to be formed by cavity wall ties positioned 225mm each side of joint, and 225mm vertically staggered. Joint to be filled with 10mm Hydrocell filler foam with 10x10 polysulphide mastic outer seal.

All internal and external walls must prevent the passage of moisture from the ground and formation of condensation. A suitable damp proof course should be installed which is continuous with the damp proof membrane, at least 150mm from the ground level and the cavity taken at least 225mm below the lowest level of the damp proof course. Weep holes should be provided every 900mm. Please refer to ADC Section 5: Diagram 8 & 9.

Openings

Lintels or steel supporting structure to head of openings:

Jambs and Cills to be fitted with non combustible rigid uPVC insulated cavity closer, e.g. Xtratherm CavityTherm Close-R or similar and approved with a min. thermal resistance path of 0.45mK/w, insulation to be installed fitting tightly ensuring no gaps including above and below cavity tray.

GROUND FLOOR - Suspended Beam and Block Floor

- 75mm minimum proprietary screed or cement:sand screed (1:3) with fibre reinforcing additive, over
- 500 gauge polythene slip layer, with
- 20mm Celotex TB4000 thermal break strips to perimeter, over
- 150mm Celotex FI5000 Rigid Insulation Boards, over
- Beam & Block floor to 3rd party designs

to achieve
U-Value of 0.15 W/m²K

Non Radon Area

Anderson Xtra-Load Elite High Performance Polymeric DPC or similar approved (pitch free) at 150mm minimum above finished ground level.

Floor insulation to abut firmly against blockwork wall leaving no gaps Manufacturer's calculations for the suspended ground floor to be submitted to the Local Authority 28 days prior to commencement on site.

Beam and block floor to be laid in strict accordance with manufacturer's recommendations and gaps between blocks to be tight and grouted to form a monolithic construction, beam and block floor to be built into the external walls on felt DPC which must extend up the external face of the blockwork inner skin and linked with the DPM.

void below floor to be ventilated with 215 x 65mm airbricks (min. 6000mm2 free air area) complete with sleeve periscope, to be provided at 4000mm centres and located within 450mm of a corner.

Minimum 150mm void to be maintained below floor beams and 75mm stone blinding or 100 over site concrete to soil. On shrinkable soil where heave could take place, allow additional 50-150mm movement depending on potential.

Allow for 1500mm2 below ground ventilation per linear metre of wall; Maximum centres of 2.000 metres and start from 450mm (or as close as practicable) from external corner; dependent on free area of ventilator (e.g.. timloc 6,176mm2 ventilators may be placed at maximum 2 metre centres). Openings should incorporate suitable proprietary grille to prevent the passage of vermin but not restrict air flow. Any intermediate walls must be perforated (Air bricks, ducts or Honeycomb construction) to maintain cross ventilation.

INTERNAL PARTITION - TYPE C, BLOCKWORK

- min. 12.5 Plasterboards and skim or equal approved (mass 10kg/m²) - NOTE - fairfaced blockwork in changing areas
 - Concrete blocks of minimum density 120 kg/m³ (excluding finishes).
 - min. 12.5 Plasterboards and skim or equal approved (mass 10kg/m²)- NOTE - fairfaced blockwork in changing areas
- All joints to be well sealed.

LINTELS / STRUCTURAL SUPPORTS

Catnic or similar approved galvanised steel lintels over all external openings, fixed to British Standard 5977 and manufacture's recommendations. Lintels to be specified by the client and manufacturer. Weep Holes to be provided at 450mm centers to head.

Large steel and timber beams may be required in some locations. To be detailed and confirmed by structural engineer prior to works commencing on site. Details to be submitted to the Building control Body for approval.

STRUCTURAL STEELWORK

All steelwork to be to engineers specifications and in accordance with the structural calculations. Appropriate blue brick or concrete padstones are to be provided with a minimum beam bearing as specified by the engineer

Fabrication of steelwork to be in accordance with BS 5950:Part 2. All steelwork to be to engineers specifications and of grade 43. Steelwork to be shot blasted and treated with suitable primer.

Contractor responsible for the erection of steelwork to ensure the stability of the structure at all times during erection, and for any temporary bracing and struts required.

FIRE PROTECTION TO LOAD-BEARING STEELS

Load-bearing Steelwork to be intumescently coated to provide 30 minutes fire resistance alternatively, Fully Encase exposed elements of load-bearing steel in 15mm Firecase boards to provide 30 minutes fire resistance

SEE 8219 04 06 for continuation of notes.

To be read in conjunction with 8219 04 01/02/03/04/05/06/07/08/09/10.

REV

Revision Notes.

Drawing Status.

INFORMATION

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Green Field Sports Field
Straight Drove
Sawtry, Huntingdon
PE28 5XP

Title:
Sections B-B & C-C

Scale: 1:20 & 1:10 A1	Drawn: PJB	Checked: HC	Date: 20/05/2022
Drawing No: 8219 04 04	Revision: A		

HSSP A1