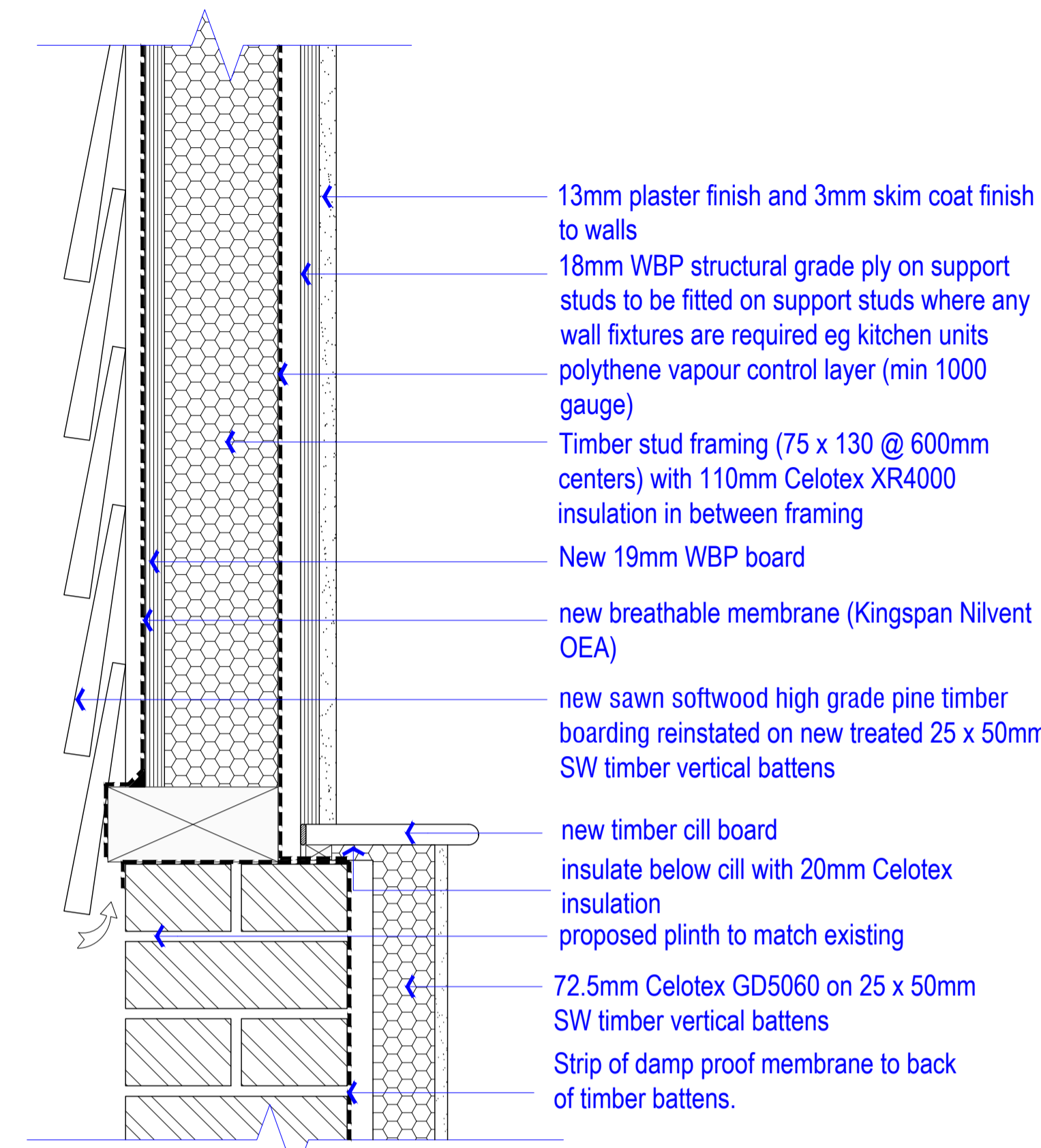


- existing barn frame
- new decorative timber panelling fixed to treated SW 25 x 50mm battens
- polythene vapour control layer (min 1000 gauge)
- 50mm Celotex FR5000 insulation
- New 19mm WBP board
- new breathable membrane (Kingspan Nilvent OEA)
- existing horizontal timber cladding reinstated on new treated 25 x 50mm SW timber vertical battens
- insulate below cill with 20mm Celotex insulation
- new timber cill board
- existing barn frame and lead flashing
- existing 18th century brickwork plinth wall
- 72.5mm Celotex GD5060 on 25 x 50mm SW timber vertical battens
- Strip of damp proof membrane to back of timber battens.

(Please note: current requirements are for a U-Value of 0.30W/m²K. We do not achieve this however the level we achieve avoids condensation and has been approved by building control)

Upgraded Timber Wall U-Value 0.41W/m²K
Refer to U-Value calculation

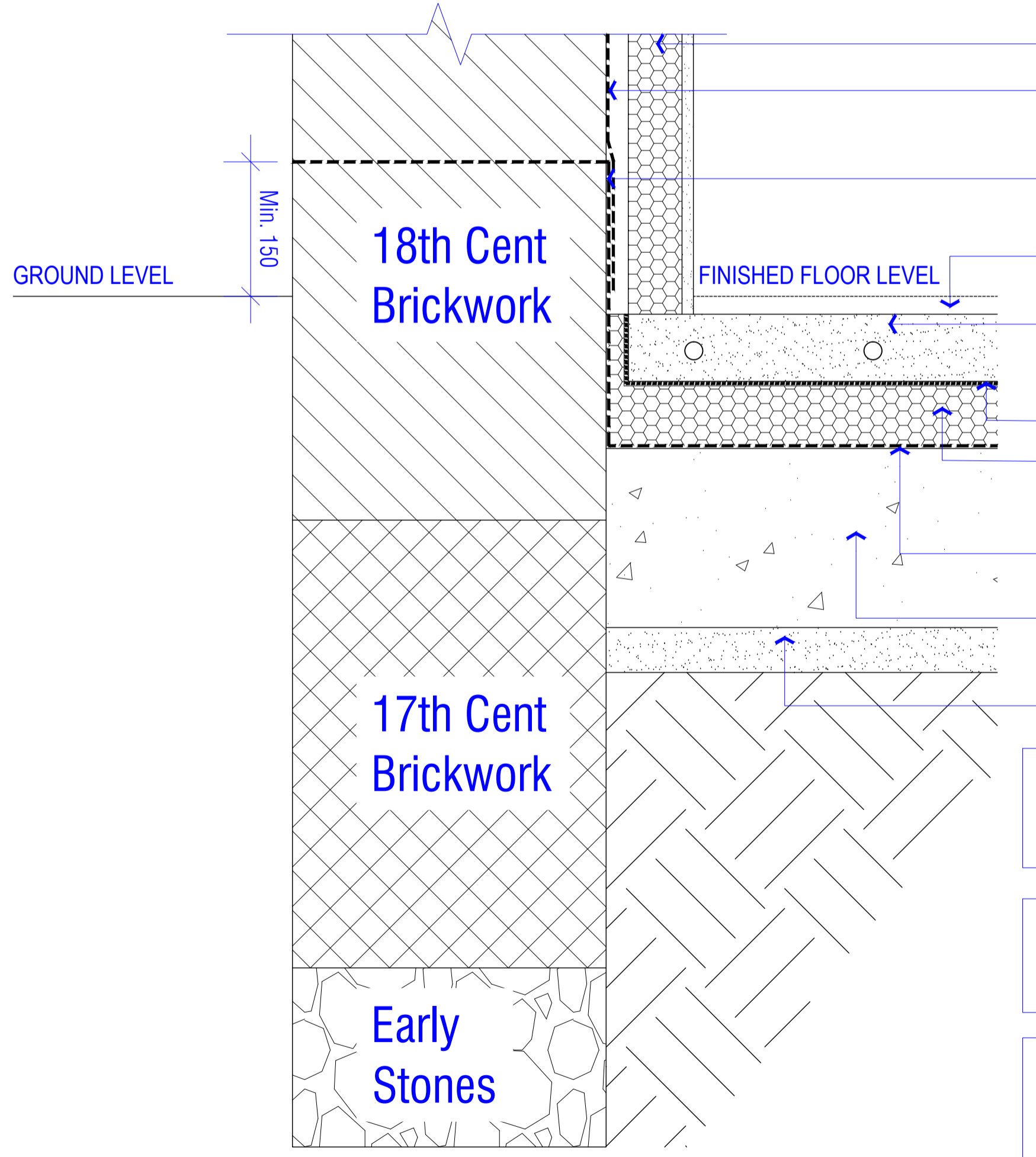
Upgraded Brickwork Plinth Wall U-Value 0.27W/m²K
Refer to U-Value calculation



- 13mm plaster finish and 3mm skim coat finish to walls
- 18mm WBP structural grade ply on support studs to be fitted on support studs where any wall fixtures are required eg kitchen units
- polythene vapour control layer (min 1000 gauge)
- Timber stud framing (75 x 130 @ 600mm centers) with 110mm Celotex XR4000 insulation in between framing
- New 19mm WBP board
- new breathable membrane (Kingspan Nilvent OEA)
- new sawn softwood high grade pine timber boarding reinstated on new treated 25 x 50mm SW timber vertical battens
- new timber cill board
- insulate below cill with 20mm Celotex insulation
- proposed plinth to match existing
- 72.5mm Celotex GD5060 on 25 x 50mm SW timber vertical battens
- Strip of damp proof membrane to back of timber battens.

Timber Framed Wall U-Value 0.29W/m²K
Refer to U-Value calculation

Brickwork Plinth Wall U-Value 0.27W/m²K
Refer to U-Value calculation

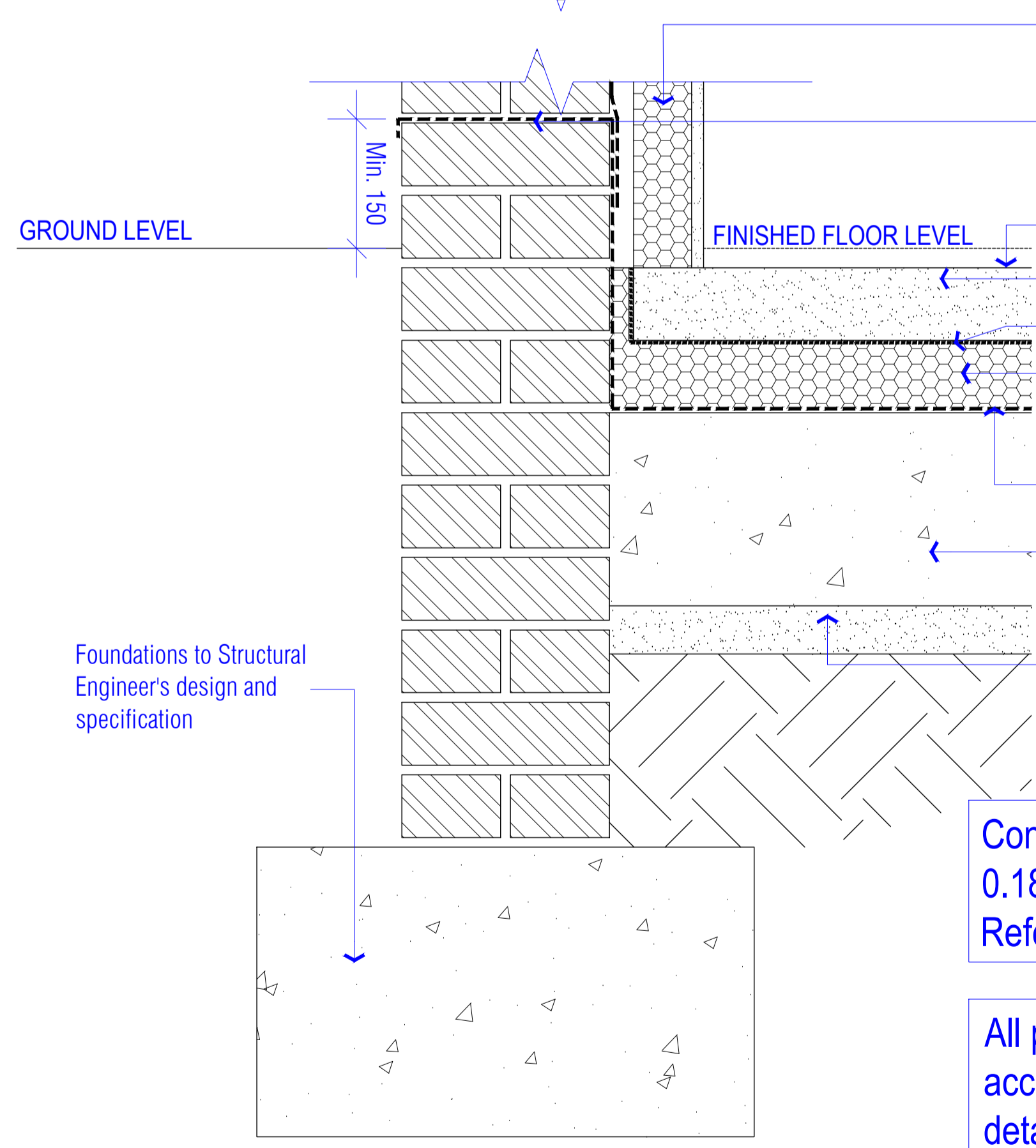


- 72.5mm Celotex GD5060 on 25 x 50mm SW timber vertical battens
- Strip of damp proof membrane to back of timber battens.
- If existing wall does not have DPC, new chemical DPC to be injected at 150mm min above external ground level, new DPM to overlap with DPC
- selected floor finish to be advised by client
- 75mm screed installed on 500 gauge polythene separation layer. min 30mm cover to underfloor heating pipes in accordance with manufacturers recommendations.
- polythene membrane (min 500 gauge)
- 75mm Celotex FR5000 insulation, min 25mm insulation turned up at all external perimeter walls
- Polythene DPM - minimum 2000 gauge, lapped and sealed to DPC below threshold
- New reinforced concrete floor slab to structural engineers specification
- min 50mm concrete blinding to S/eng design

NEW CONCRETE GROUND FLOOR TO ACHIEVE A U-VALUE OF 0.18W/m²K AS PER CELOTEX U-VALUE CALCULATION

CONTRACTOR TO CONFIRM COMPATIBILITY OF FLOOR SCREED/ UNDERFLOOR HEATING AND INSULATION PRIOR TO INSTALLATION

ALL PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DETAILS/ INSTRUCTIONS/ SPECIFICATIONS



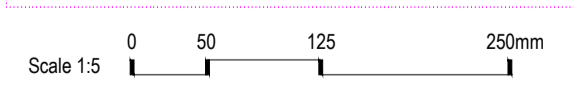
- 72.5mm Celotex GD5060 on 25 x 50mm SW timber vertical battens
- Continuous DPM to return up vertical face of brickwork, between threshold and brickwork and return up outer face of brickwork to a minimum height of 150mm
- selected floor finish to be advised by client
- 75mm sand/ cement screed
- polythene membrane (min 500 gauge)
- 75mm Celotex FR5000 insulation, min 25mm insulation turned up at all external perimeter walls
- Polythene DPM - minimum 2000 gauge, lapped and sealed to DPC below threshold
- New reinforced concrete floor slab to structural engineers specification
- min 50mm concrete blinding to S/eng design

Concrete Ground Floor U-Value 0.18W/m²K
Refer to U-Value calculation

All products are to be installed in accordance with manufacturers details/instructions and specifications

[01] EXISTING BARN WALL UPGRADE, PLINTH AND FLOOR DETAIL

[02] PROPOSED KITCHEN WALL, PLINTH AND FLOOR DETAIL



NOTE:
DO NOT SCALE FROM DRAWINGS - EXCEPT FOR PLANNING PURPOSES.
ALL DISCREPANCIES TO BE REPORTED TO ARCHITECT IMMEDIATELY.
ALL DIMENSIONS TO BE VERIFIED BY CONTRACTOR ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DOC 08/06/17 Issue for discharge of conditions application

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| | PROJECT TITLE GREAT NAST HYDE HOUSE, WILKIN'S GREEN LANE, HATFIELD AL10 9RB | SCALE AT A1 1:5 | REVISION BR1 |
| DRAWING TITLE Proposed Floor Details | | JOB AND DRAWING NO. 1630-BRDT-02 | |