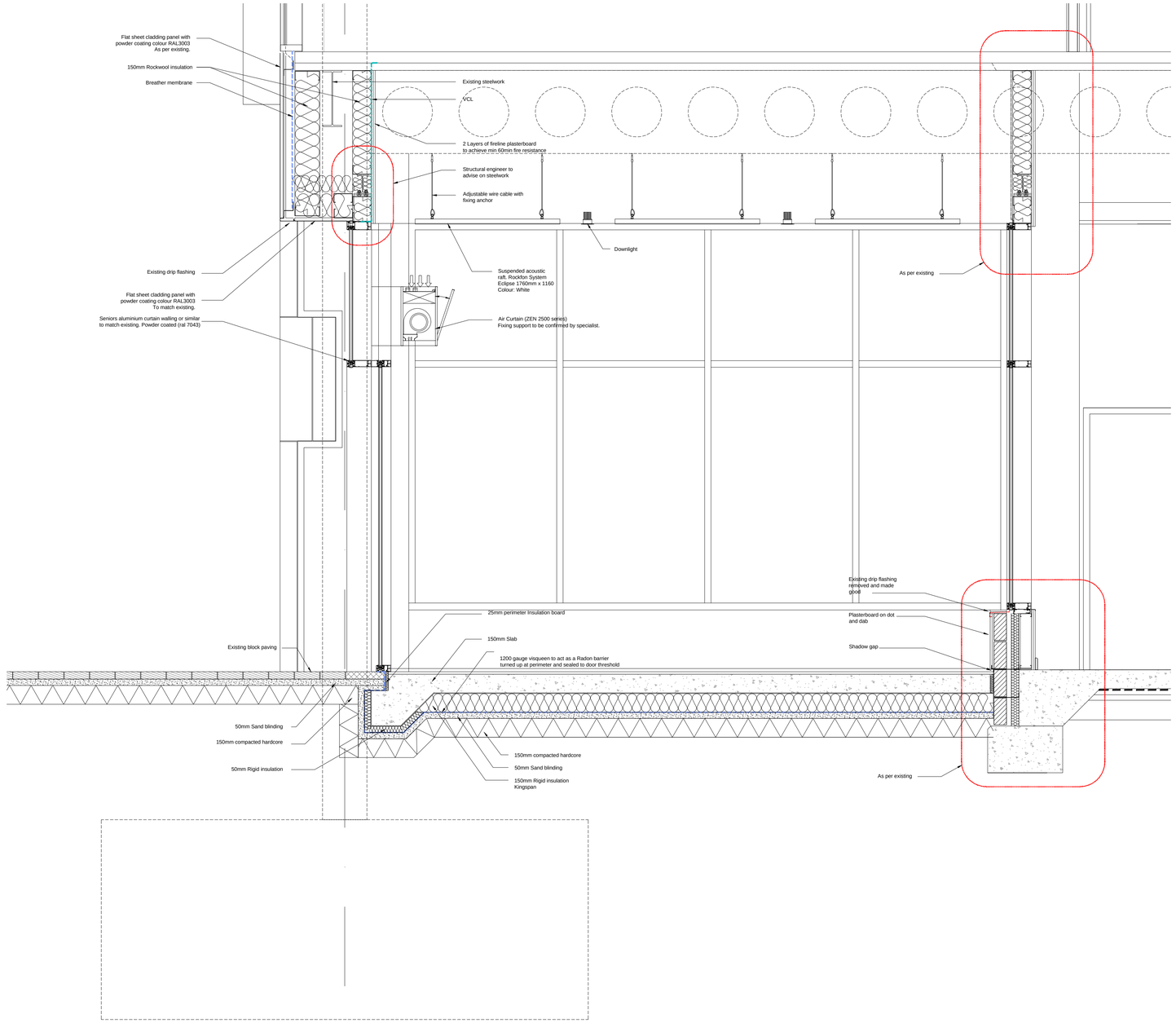


Proposed Section C-C
1:20 @ A1

Specification Notes

Foundations

- Foundation design to be to Structural Engineer's details and specification.

Blockwork

- External wall construction to be overall nominal 300mm thick consisting outer skin 100mm Forticrete 'Purbeck Olde Heather Split' to match existing bedded on in 1:1/4:3 c:t.s mortar to match existing with bucker handled pointed joints. 100mm wide cavity with full fill rockwool mineral wool insulation, with wall ties as per Structural Engineer's Design.
- Internal skin of wall to be 100mm thick blockwork with a compressive strength of 7.3N/mm2 bedded in 1:1:6 natural mortar, cavity to be closed with damcore insulated dpc's, installed at all external door & window reveals or similar approved. Walls internally to be finished with 12.5mm plasterboard on dabs with skim finish.
- Overall wall construction to have a min U-value of 0.28 w/m²k.
- 10mm movement joints to be formed using compressible material filler (Aeroll or equivalent), with polysulphide mastic pointing to facing brickwork. Movement joints to be at nom. 12.0m ctrs for brickwork and 6.0m for blockwork. Wall ties for use across movement joints to be to Structural Engineer's Design.
- Hyload, or similar approved, damp proof courses to suit wall thickness with oversize dpc where necessary to lap dpm horizontally (and vertically at any steppings) bedded in blockwork minimum 150mm above ground level.
- Marley Aquaguard tray dpc's, or similar to be built in at all external wall/roof abutments and at ground floor level continuous with DPM. Weep holes in facing brickwork / blockwork to be provided at all tray dpc's at max. 900mm ctrs.
- Door and window openings in External walls to have Steel lintols as per SE Details with 150mm minimum end bearing. openings to be fitted with continuous cavity tray dpc's with stop ends and weep holes at nominal 900mm centres, minimum 2 n° per opening.
- Fire stopping to be provided to top of all cavity walls.

Curtain Walling

- Curtain walling to be Senior Architectural Systems SF52 (or similar approved) to match existing with PPC finish in colour to match existing
- Air permeability to be min. 600Pa
- Water tightness to be min. 600Pa
- Wind resistance to be min. 2400Pa
- Safety glazing to be provided to door and windows of areas covered in part K of the Building Regulations and to BS 6206 ie glazed areas below 800mm above floor level and below 1500mm on doors or within 300mm of door jamb.
- Min U value of all new Windows to be 1.6W/m²K
- Min U value of all new External Doors to be 1.8W/m²K
- Windows to be installed by a FENSA approved contractor, providing a certificate following installation.

Wall Build-up Elsewhere

- Flat sheet cladding panels to be provided with PPC coating RAL3003 to match existing, fixed to rainscreen support system to specialist design.
- Breather membrane over Rockwool insulation between steel framing system.
- Vapour barrier to be installed on inside face of insulation to prevent interstitial condensation

Ground Floor Build-up

- Concrete floor to be laid on minimum 150mm hardcore with 50mm sand binding, 1200 gauge Visqueen membrane and 150mm of Kingspan K103 Floorboard to Structural Engineer's Design
- 25mm Insulation board to be provided at perimeter to provide isolation
- For finishes please refer to finishes plan.
- Allowance for a slab recess to be made to areas receiving a barrier mat system

Fire Protection

- All existing fire protection to be maintained and where necessary repaired or provided as required.
- All building work to be carried out in line with current Building Regulations
- Smoke alarms to be fitted as required. Alarms to be taken to separate fused circuit at distribution board and to be linked together. All to be to BS 5446 part 1: 2000 and BS 5839 part 6: 2013. Certification to be provided upon completion
- Note: The installer of all fire alarm/ detection equipment is to provide installation and commissioning test certificates to show compliance with all relevant British Standards and to the satisfaction of the approved inspector and fire authorities

Steelwork

- All structural steel to be fire protected to achieve min of 2 hour fire resistance using intumescent paint or to be boxed in, or over clad with 1 layer of British Gypsum Glasroc F Firecase or 3 layers of 12.5mm British Gypsum Fireline and skim fixed in accordance with manufacturers details

Paint Finishes

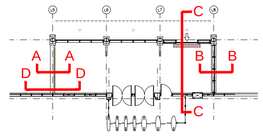
Walls to receive 1 x mist coat of white emulsion followed by 2 coats of Dulux Vinyl Matt Emulsion. Paint finishes to be low VOC where possible.

General

- These drawings are to be checked & verified by the contractor prior to work commencing on site & any discrepancy or query shall be immediately reported & resolved before proceeding with construction.
- The contractor shall be entirely responsible for the security,strength and stability of the building during the course of the works
- All building work to be completed to the full satisfaction of the approved inspector and in accordance with the current building regulations, British standards and all relevant codes of practice
- All materials are to be used and installed in accordance with the relevant manufacturers instructions and recommendations.
- All materials shall not be lower than that defined in the relevant British standards.
- All softwood timbers to be adequately treated in accordance with current building regulations. All structural timber to be marked dry or kd and to have stress grade mark.
- All timber based products to be FSC or PEFC certified.
- Forming new construction over existing water mains,gas mains and drains is to be avoided, if any are discovered during excavations they may need to be re-directed, replaced and sleeved all to relevant bodies / approved inspectors approval.

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IF IN DOUBT ASK.
Materials not in conformity with relevant British or European Standards/Codes of practice or materials known to be deleterious to health & safety must not be used or specified on this project.



KEY PLAN

No.	Date	Description	Drwn/Chkd By
C	21/06/18	Blockwork height amended to match existing. Title block amended.	DG/NF
B	18/06/18	Floor slab amended.	DG/NF
A	14/06/18	Entrance canopy omitted.	DG/NF

CLIENT
Turner & Townsend

PROJECT
Barnsley College, Old Mill Lane

TITLE
Proposed Detail Sections
Option 1
Sheet 2

DRAWING STATUS
TENDER

DRAWN	PZ	CHECKED	NF
SCALE	As Stated @ A1		
DATE	08/06/18		

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JOB NO.	DRAWING NO.	REV
180053	A-21-301	C