

**ROOF**  
 Roof pitch to be 17.5 degrees. Roof covering to be Single Ply membrane as NBS/J42. 150mm thick rigid insulation as NBS/J42 on 18mm WBP plywood fixed to trussed rafters (designed by sub-contractor) at nominal 600mm ccs as NBS/G20/350. Ceilings faced internally with 15mm Duralume board as NBS/K10/240. Provide noggin as necessary to provide end support for plasterboard between trusses. Roof to achieve U values of 0.11 W/m<sup>2</sup>K.

Roof complete with all necessary bracing. Wallplates to be 75x100mm treated sw. Concealed eaves gutter to be formed using 18mm WBP plywood and the single ply roof covering.

**STRAPS**  
 Provide vertical restraint straps as NBS/G20/820 at 1.25m ccs. to fix wallplates to walls. To be Expamet BAT standard straps 30 x 3mm x 1000mm long spiked to walls at 75mm ccs. Provide lateral restraint straps NBS/G20/830 at max. 1.2m ccs. to rafters/ceiling joists at gable ends. Straps to be fixed across 2 no. rafters/ceiling joists complete with solid blocking under each strap. Straps to be Expamet BAT M305 HD 30 x 3mm x 1200mm long

**VENTILATION**  
 For Mechanical ventilation, refer to Mechanical specification and drawings.

**WALLS**  
 External cavity wall to be 350mm thick. External leaf brick (NBS/F10/110) and blockwork (NBS/F10/355A) 110mm cavity with 97mm thick Celotex CF5097 full fill insulation batts NBS/F30/150A against Masonry internal leaf system comprising 140mm thick blocks NBS/F10/355 & F10/355A. Cavity batts to be laid strictly in accordance with manufacturers instructions. Plaster finish walls to be faced internally with 11mm British Gypsum Thistle Hardwall undercoat and 2mm and British Gypsum Thistle Durafinish skim coat. Walls to achieve U value of 0.28 W/m<sup>2</sup>K.

**MULTICOAT RENDER SYSTEM NBS/M20/160A**  
 Apply 18mm K Rend Silicone WP 2 coat through colour render to blockwork external walls. Refer to elevations for extent.

All blocks above and below dpc level to be min. 7.3N/mm<sup>2</sup>. Bricks to be type FL or FK quality. Mortar mix above dpc to be 1:1:6 cement:lime:sand, below dpc 1:1:4-5 cement:lime:sand.

**WINDOWS AND DOORS**  
 Windows and doors to be A rated UPVC to match existing. All window and door opening lights to be fitted with proprietary draught proofing. Glazing to be double glazed sealed units fitted with 6mm toughened glass to BS 6206 1981 to all glazing within 800mm of FFL. Double fitting units to provide 16mm air gap filled with argon and be fitted with Pilkington Low E glass with a value of en=0.05. NBS/L10/330A & NBS/L20/280A. Windows to achieve a U-value of 1.6 W/m<sup>2</sup>K and glazed doors to achieve a U value of 1.8 W/m<sup>2</sup>K.

**WALL TIES**  
 To external cavity walls provide Ancon stainless steel ST1 wall ties as NBS/F30/210A placed at 600mm ccs horizontally, 450mm ccs vertically and 225mm ccs vertically at unbonded jombs. Wall ties to be in accordance with DD140. To be 225mm long safety vertical twist type complete with insulation retaining clips.

**DPCS as NBS/F30/310A**  
 Dpcs to be Visqueen ZEDDEX and inserted throughout at a minimum 150mm above finished ground level incorporated in both leaves of cavity wall and lapped with dpm. All door and window openings in cavity walls to receive Kingspan Kooltherm cavity closers 100 as NBS/F30/180A.

**LINTELS** - STEEL as NBS/F30/755, CONCRETE as NBS/F30/735, SHUTTER LINTELS as NBS/L20/610A. Steel Lintels in external walls to be IG Lintels type L1/S 100 W/L. Lintels to internal blockwork walls to be Nayour Limited 125x100mm reinforced pre-stressed pre-cast concrete fair faced lintels. All lintels to be fitted in accordance with manufacturers instructions.

**CAVITY TRAYS** as NBS/F30/370A, F30/370B & F30/385A  
 Cavity trays to be performed by Cavity Trays Limited and provided over all external lintels, over ground floor dpc and above lead flashings at abutments. Provide weepholes in perpend at 900mm ccs immediately above base of cavity.

**TIMBER STUD PARTITION SYSTEM** as NBS G20/270  
 125x50 Softwood timber framing filled with 100mm of Knauf insulation limited Earthwool flexible slab NBS/P10/220A

**MASONRY INTERNAL BLOCKWORK WALLS** As F10/355 (Paint Grade) & F10/355 (Standard Finish) 140mm thick Forterra Hanson Fenlite 1500 or Evalite Paint Grade blocks. Fenlite 1500 blocks to receive 13mm plaster and skim finish NBS/M20/210.

**GROUND FLOOR SLAB**  
 Ground floor slab to comprise of unbonded screed system as NBS/M10/115A to be 75mm on 500 gauge Visqueen Ecomembrane separating membrane as NBS/M10/290 on 150mm Celotex FL5000 insulation as NBS/M10/290 on 150mm insitu-concrete slab system as NBS/E10/111 on 1200 gauge Visqueen Ecomembrane dpm dressed up walls and taped to Hyload dpc as NBS/J40/120A on 150mm thick sand blinded and consolidated hardcore. Floors to achieve a U-value 0.13 W/m<sup>2</sup>K.

**DISABLED FACILITIES**  
 All new internal doors at ground floor level to have a minimum clear opening width of 775mm. Corridor widths at ground floor level to be minimum 900mm wide.  
 Electric switches and socket outlets to be provided between 450mm and 1200mm from FFL.

**CONSTRUCTION DETAILS**  
 All construction details to be accredited construction details and to be built in accordance with SBEM Robust Details for Masonry Cavity Walls

**WASTES** as NBS/R11 and the Mechanical Specification and Drawings  
 All waste fittings to have a minimum 75mm deep seal trap. Waste sizes to be Sinks - 40mm discharging to foul drain via back inlet gulleys. Interconnected wastes to be minimum 50mm dia. and have rodding access at salient angles.

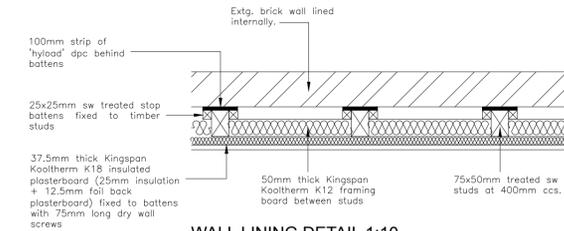
**DRAINAGE** as NBS/R12  
 Foul and surface water drainage to be laid in 100mm dia. Hepworth plastic pipework with all necessary fittings bedded and surrounded in granular material in accordance with manufacturers recommendations. Pipework passing through external walls to be sleeved and linteled over. All pipes, fittings etc. to be completely free of any super imposed loadings either from foundations, walls or other loads and flexibly jointed to preclude shearing where differential settlement may occur.

All drainage runs to be installed to falls to achieve self cleaning velocities. Minimum gradient 1:60

Inspection chambers to be constructed with Hepworth PPIC 100 GRP type with light duty cover and frame in paved and landscaped areas and medium duty to driveways installed strictly in accordance with manufacturers recommendations.

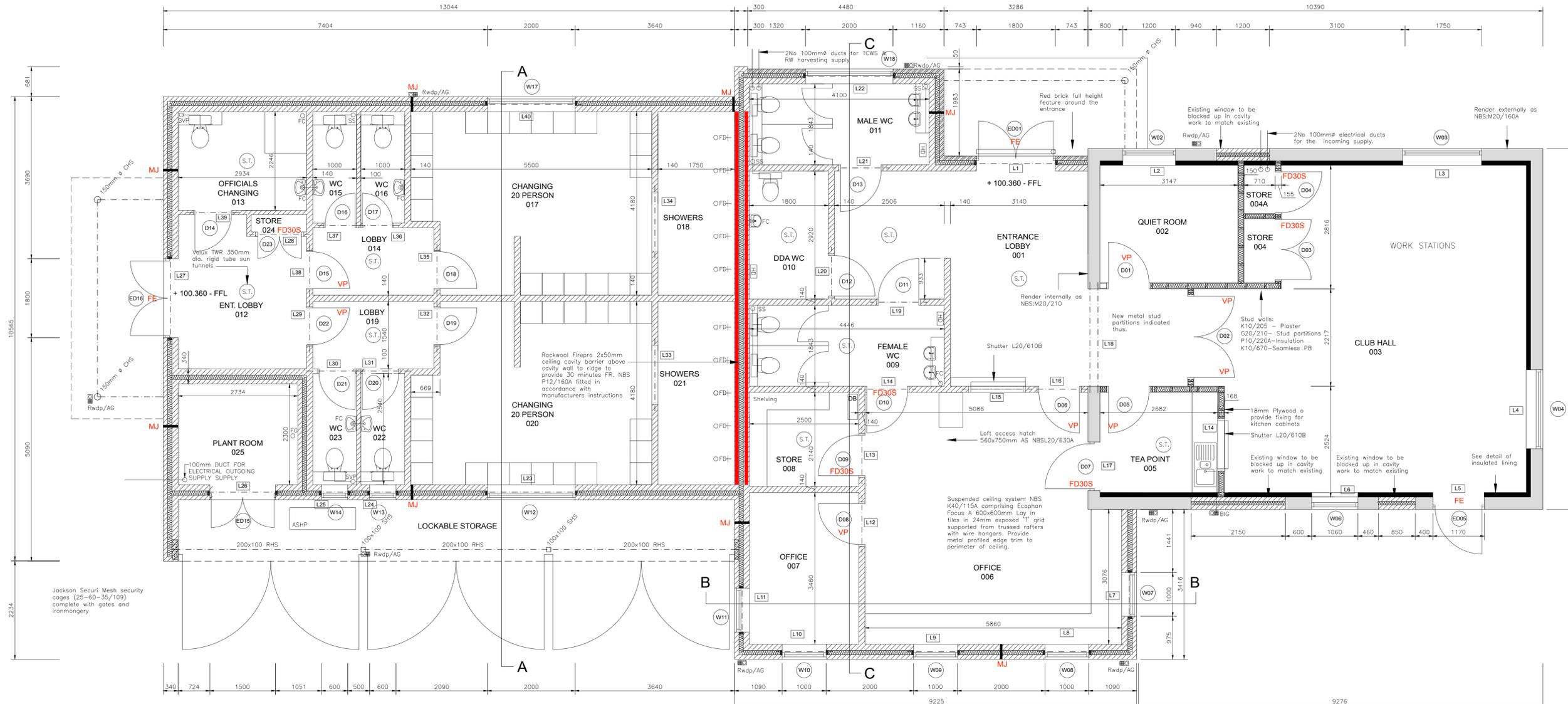
Surface water drains to be connected in to the existing storm water drainage system.  
 Where drains runs pass under floor slab within 300mm of the underside of the slab drain to be encased in minimum 150mm of concrete.

All drainage works to be carried out to Local Authority and Water Authority approval.



**WALL LINING DETAIL 1:10**

NOTE: Wall to achieve U value of 0.28 W/m<sup>2</sup>K



**GROUND FLOOR PLAN 1:50**

A - Notes added

Client  
**PROPOSED EXTENSION**

VICTORY PARK  
 CHURCH ROAD  
 STROUD  
 GLOS. GL5 4JE

CANSCROSS PARISH COUNCIL

Title  
**PLAN**  
 AS PROPOSED

**CHURCH**  
 ARCHITECTURAL

Rory Brock  
 M: 07712 259378

April Church  
 M: 07979 541397

The Cube, Bath Road, Stroud, G15 4BJ  
 E-mail: ap@churcharchitect.com

Drawn: RWB  
 Scale: 1:50 @ A1  
 Date: DEC 2015  
 Drawing Number

**15**

Revisions

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