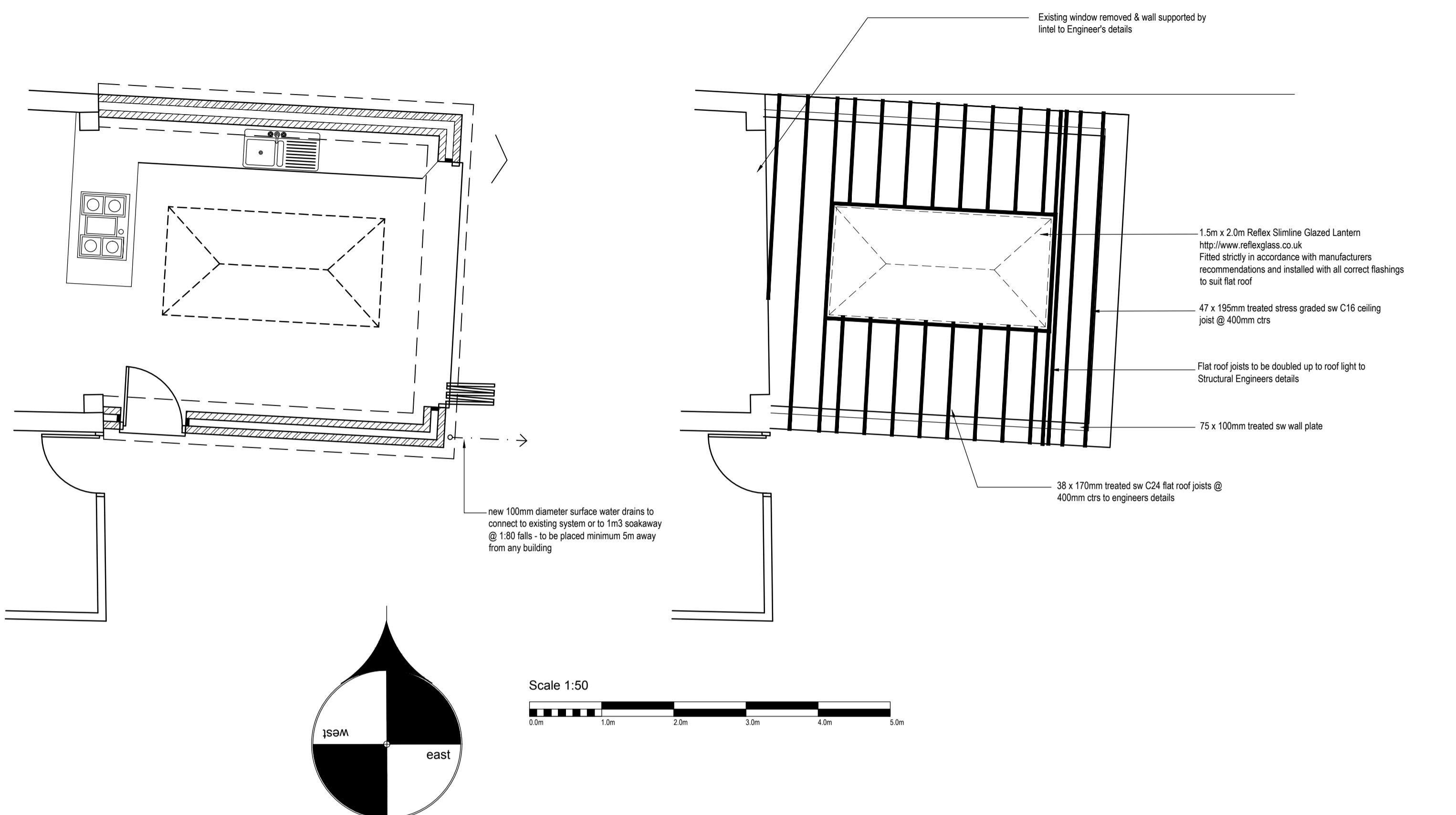


DO NOT SCALE

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PLEASE CHECK ALL DIMENSIONS ON SITE PRIOR TO COMMENCING PROJECT

NOTES



CDM REGULATIONS

The owner, should they need to do so, must abide by the Construction Design and Management Regulations 2007 which relate to any building works involving more than 500 man hours or longer than 30 days duration. It is the client's responsibility to appoint a Planning Supervisor on all projects that require compliance with the CDM Regulations.

PARTY WALL ACT

The owner, should they need to do so under the requirements of the Party Wall Act 1996, has a duty to serve a Party Structure Notice on any adjoining owner if building work on, to or near an existing Party Wall involves any of the following:

- Support of beam
- Insertion of DPC through wall
- Raising a wall or cutting off projections
- Demolition, rebuilding
- Underpinning
- Insertion of lead flashings
- Excavations within 3 meters of an existing structure where the new foundations will go deeper than adjoining foundations or within 6 meters of an existing structure where the new foundations are within a 45 degree line of the adjoining foundations.

A Party Wall Agreement is to be in place prior to start of works on site.

SITE PREPARATION

Ground to be prepared for new works by removing all unsuitable material, vegetable matter and tree or shrub roots to a suitable depth to prevent future growth. Seal up, cap off, disconnect and remove existing redundant services as necessary. Reasonable precautions must also be taken to avoid danger to health and safety caused by contaminants and ground gases e.g. land fill gases, radon, vapours etc. or in the ground covered, or to be covered by the Building Control.

EXISTING STRUCTURE

Existing structure including foundations, beams, walls and lintels carrying new and altered loads are to be exposed and checked for adequacy prior to commencement of work and as required by the Building Control.

TRENCH FOUNDATION

Provide 600mm wide x 750mm deep trench fill foundations, concrete mix to conform to BS EN 206-1 and BS 8500-2. All foundations to be a minimum of 100mm below ground level, exact depth to be agreed on site with Building Control Officer to suit site conditions. All constructed in accordance with 2004 Building Regulations A1/2 and BS 8004:1996 Code of Practice for Foundations. Ensure foundations are constructed below the level of any adjacent drains. Base of foundations supporting internal walls to be 100mm above ground level. Foundation walls to be stepped if required. Please note that should any adverse soil conditions or difference in soil type be found or any major tree roots in excavations, the Building Control Officer is to be contacted and the advice of a structural engineer should be sought.

SOLID FLOOR INSULATION UNDER SLAB

Solid ground floor to consist of 150mm consolidated well-rammed hardcore. Blended with 50mm sand blinding. Provide a 1200mm gauge polythene DPM. DPM to be lapped in with DPC in walls. Floor to be insulated over 1200mm gauge Celotex FF4000 insulating grade mineral wool insulation board containing air free perimeter to avoid thermal bridging. A vapour barrier should be laid over insulation boards and turned up 100mm at room perimeters behind the skirting. All points to be lapped 150mm and sealed, provide 150mm ST2 or Gen2 ground bearing slab concrete mix to conform to BS 8500-2 over VCL. Finish with 55mm sand/cement finishing screed. Where drain runs pass under new floor, provide A142 mesh 1.0m wide within bottom of slab min 50mm concrete cover over length of drain. Where existing suspended timber floor air bricks are covered by new extension, ensure cross-ventilation is maintained by connecting to 100mm dia UPVC pipes to terminate at new 65mm x 215mm air bricks built into new cavity wall with 100mm concrete cover laid under the extension. Ducts to be sleeve through cavity with cavity tray over.

BASIC RADON PROTECTION

Provide a 1200mm (300 um) radon membrane under floor slab lapped 300mm double welded and taped with gas proof tape at joints and service entry points. Carry membrane over cavity and provide suitable cavity tray and weep holes.

WALLS

All new walls to have Class A blockwork below ground level or alternatively semi engineering brickwork in 1:4 masonry cement or equal approved specification. Cavities below ground level to be filled with lean mix concrete min 225mm below damp proof course. Or provide lean mix backfill at base of cavity wall (150mm below damp course) laid to fall to weep holes.

PARTIAL FILL CAVITY WALL

Provide 102.5mm facing brick to match existing construction. 50mm clear residual cavity, 60mm Celotex CG4000 insulation fixed to 100mm standard block. K value 0.15 (Celcon standard, Thermalite shield, Topline standard). Internal finish 13mm lightweight plaster or plasterboard on dabs. Walls to be built with 1:1.6 cement mortar.

DPC

Provide horizontal strip polymer (hydeal) damp proof course to both internal and external skins 150mm above external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed.

WALL TIES

All walls constructed using stainless steel vertical twist type retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm ctrs at reveals and corners in staggered rows. Wall ties to be suitable for cavity width and in accordance with BS 5286-6: 1996 and BS EN 645-1: 2003

OPENINGS AND RETURNS

An opening or recess greater than 0.1m² shall be at least 550mm from the supported wall (measured internally).

THERMAL BRIDGING

Care shall be taken to limit the occurrence of thermal bridging in the insulation layers caused by gaps within the thermal element, i.e. around windows and door openings. Reasonable provision shall also be made to ensure the extension is constructed to minimise unwanted air leakage through the new building fabric.

CAVITIES

Provide cavity trays over openings. All cavities to be closed at eaves and around openings using Thermapave or similar non-combustible insulated cavity closers. Provide vertical DPCs around openings and abutments. All cavity trays must have 150mm upstands and suitable cavity weep holes (min 2) at max 900mm centres.

BEAMS

Supply and install new structural elements such as new beams, roof structure, floor structure, bearings, and padstones in accordance with the Structural Engineer's calculations and details. New steel beams to be encased in 15mm Gyproc Fireline board with staggered joints, Gyproc FireSafe or painted in Nutline S or similar intumescence paint to provide 1/2 hour fire resistance as agreed with Building Control. All fire protection to be installed as detailed by specialist manufacturer.

LINTELS

For uniformly distributed loads and standard 2 storey domestic loadings only. Lintel widths are to be equal to wall thickness. All lintels to be 75mm thick internal door openings to 600mm to 800mm and 100mm thick for larger openings. Internal door openings are to be used for 800mm sized internal door openings. Lintels to have a minimum bearing of 150mm on each end. All existing lintels carrying additional loads are to be exposed for inspection at commencement of work on site.

All pre-stressed concrete lintels to be designed and manufactured in accordance with BS 8110, with a concrete strength f' 50 or 40 N/mm² and incorporating steel strands to BS 5996 to support loadings assessed to BS 5997 Part 1. For other structural openings provide proprietary insulated steel lintels suitable for spans and loadings in compliance with Approved Document A and lintel manufacturers standard tables. Stop ends, DPC trays and weep holes to be provided above all externally located lintels.

INTLINS

New and replacement doors to achieve a U-Value of 1.8W/m²K. Glazed areas to be double glazed with 16mm argon gap and soft low-E glass. Glass to be toughened or laminated safety glass to BS 6206 and Part N of the current Building Regulations.

Safety Glazing

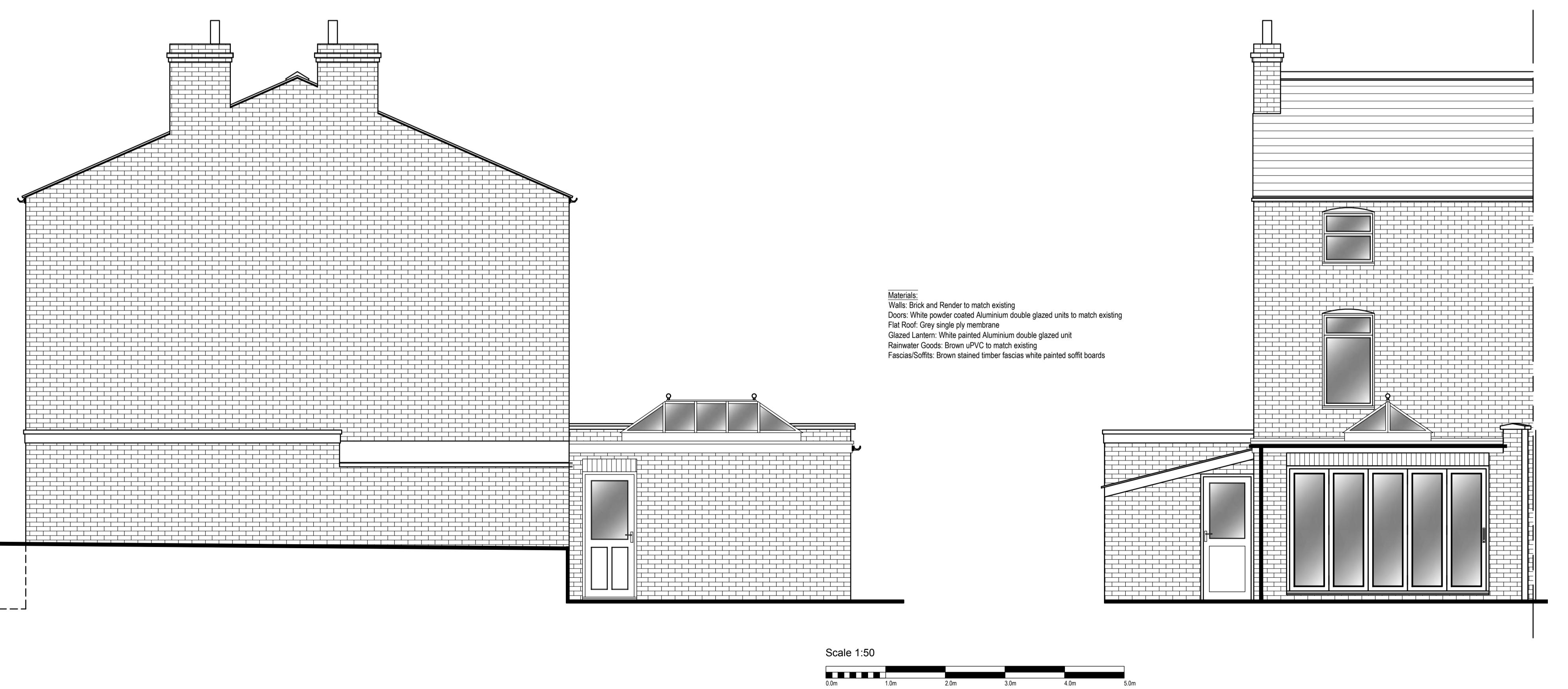
All glazing in critical locations to be toughened or laminated safety glass to BS 6206 and Part N of the current Building Regulations, i.e. within 150mm above floor level in doors and side panels within 300mm of door opening and within 800mm above floor level in windows.

BACKGROUND AND PURGE VENTILATION

Background ventilation - Centrifugal background ventilation via trickle vents to BS EN 13141-3 within 150mm from the main entrance or any other habitable rooms at a rate of 10 m³/min 500m². Purge ventilation - New Windows to have operable area in excess of 1/20th of their floor area, if the window opens more than 30° or 1/10th of their floor area if the window opens less than 30°. Internal doors should be provided with a 10mm gap below the door to aid air circulation. Ventilation provision in accordance with the Domestic Ventilation Compliance Guide.

RAINFALL DRAINAGE

New drainage to be via new 110mm UPVC half round gutters taken and connected into 60mm dia UPVC downpipes. Rainwater taken to new soakaway situated a min distance of 5.0m away from any building, via 110mm dia UPVC pipes surrounded in 150mm granular fill. Soakaway to be min of cubic metre capacity (or to depth to Local Authorities approval) with suitable granular fill and with geotextile surround to prevent migration of fines. If necessary carry out a porosity test to determine design and depth of soakaway. Size of soakaway to be confirmed with Building Inspector on site, suit ground conditions and BRE Digest 365.



Revisions

Client

Mr S Brady

Project

12 Marlborough Place
Banbury
Oxon
OX16 5DA

Drawing

Single Storey Extension
Plans & Elevations

Project Ref	Date	Drawing Number
011	Oct 2014	
Scale		Sheet Size
AS SHOWN		A1

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