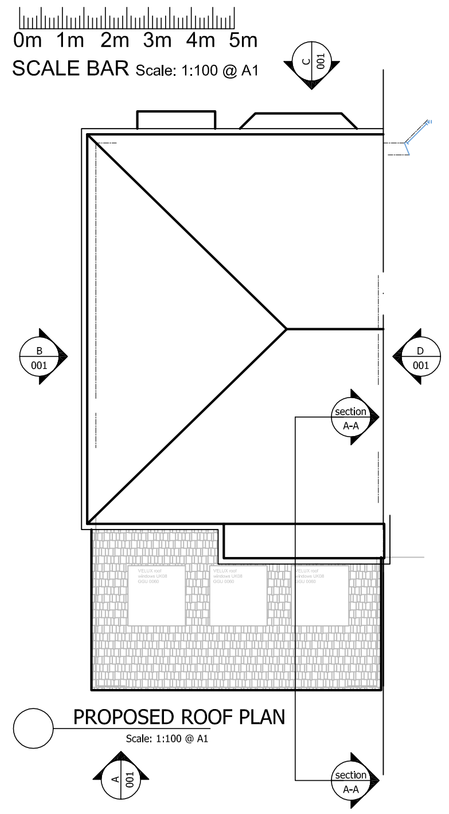
C PROPOSED FRONT ELEVATION
Scale: 1:100 @ A1

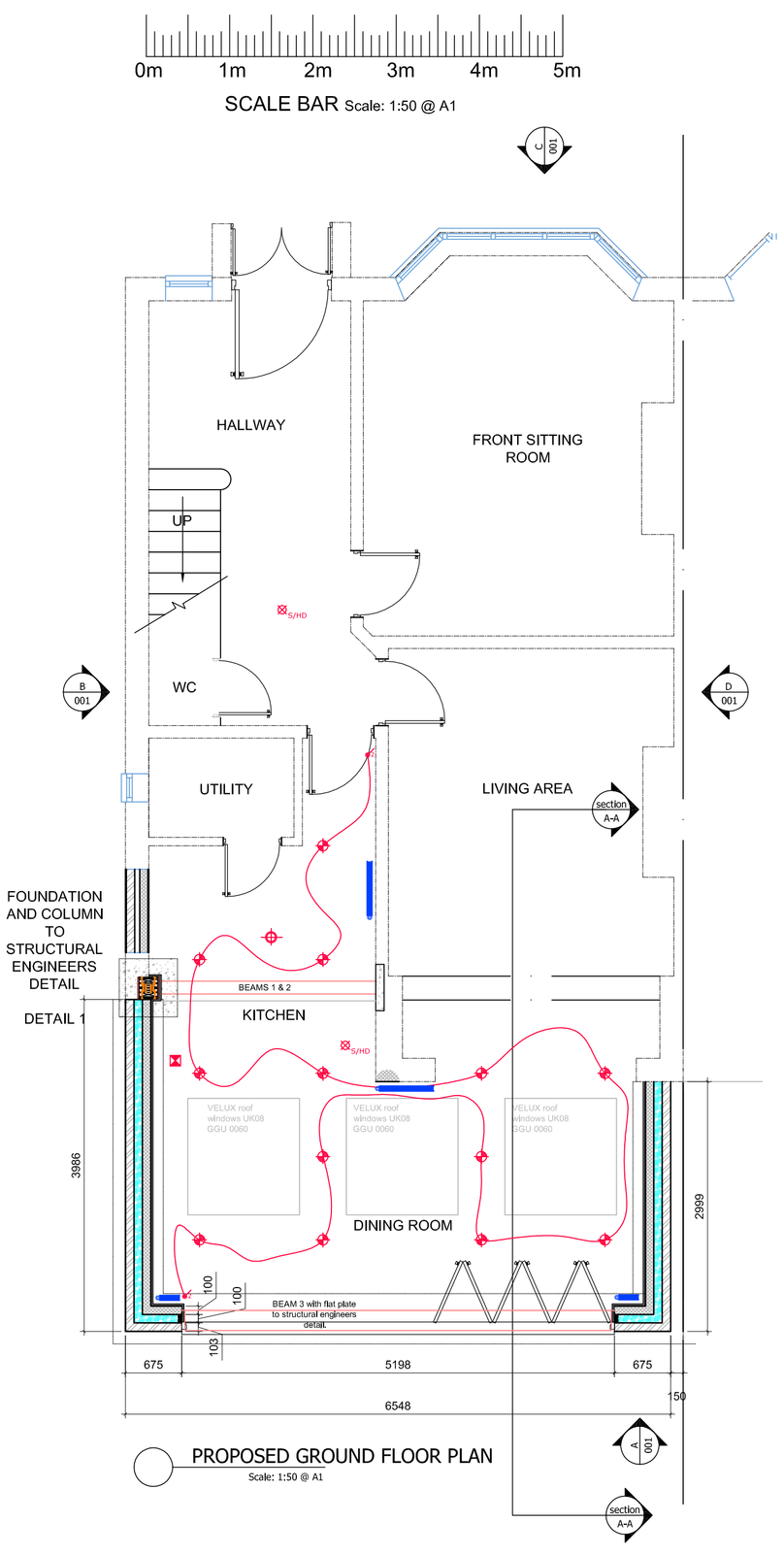
B PROPOSED SIDE ELEVATION
Scale: 1:100 @ A1

A PROPOSED REAR ELEVATION
Scale: 1:100 @ A1

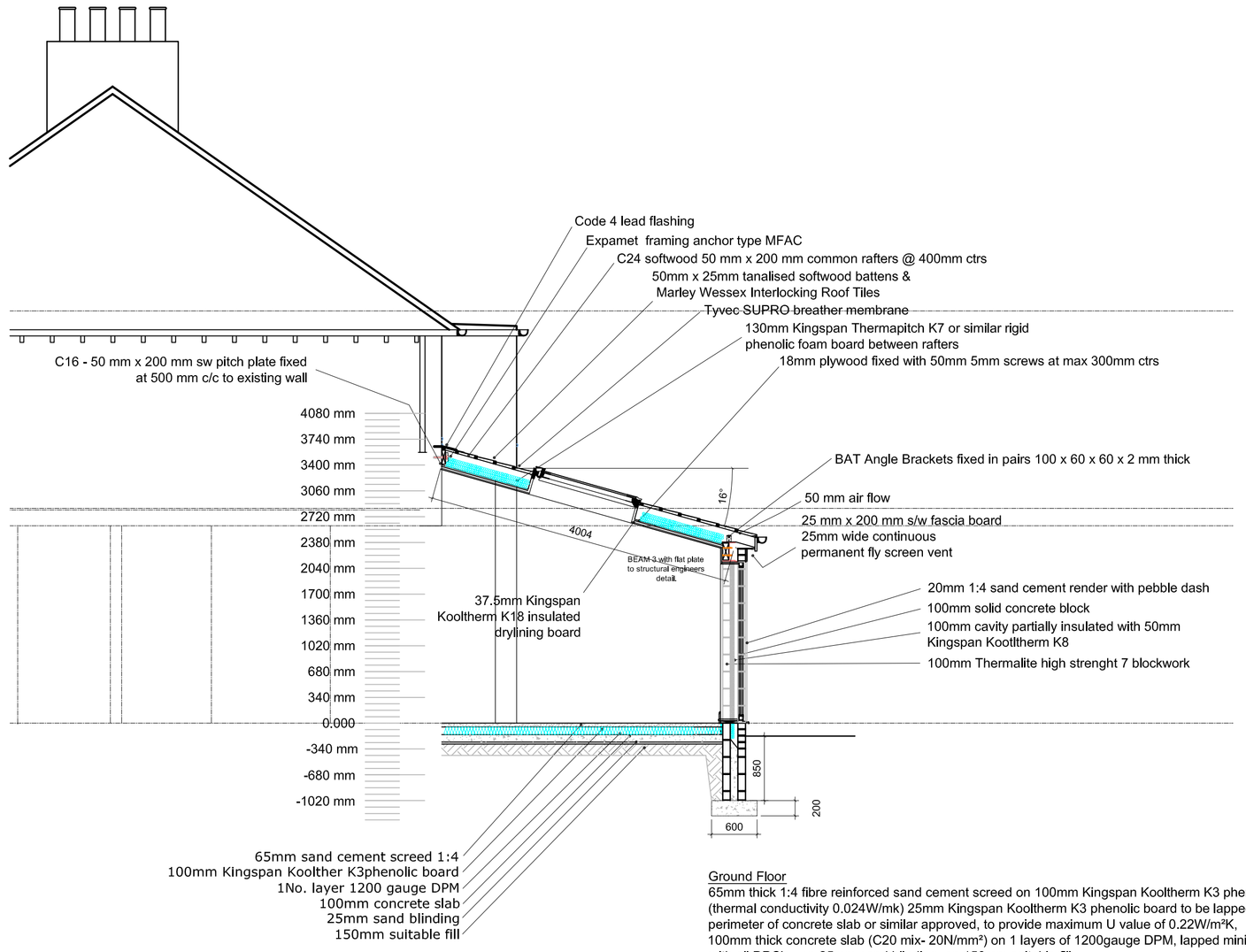
D PROPOSED SIDE ELEVATION
Scale: 1:100 @ A1



PROPOSED ROOF PLAN
Scale: 1:100 @ A1



PROPOSED GROUND FLOOR PLAN
Scale: 1:50 @ A1



Drainage
Were required new drains are to be in 110mmø Marley PVC pipework to 1 in 40 falls to new IC's. All drains beneath floor slabs to be encased in minimum 150mm of concrete and all drains within 1000mm of walls to be encased in concrete to full width of trench up to top of foundation of that wall, with movement joints formed in concrete at each pipe socket face. (DETAIL 1 drawing 002)
Pipework with less than 0.9m of cover beneath driveway to incorporate reinforced concrete cover slab to bear minimum 300mm onto original ground either side of drain excavation, with minimum 25mm compressible board between concrete and minimum 75mm granular bed and surround to pipework. Inspection chambers less than 1.0m deep to be preformed 500mm diameter PVC chambers on concrete bases, with Grade C2 cast iron cover and frame. Inspection chambers greater than 1.0m deep or under drive area to be in 225mm Class B engineering brickwork, with 150mm concrete base, benching to falls, complete with medium duty Supersteel cover or cast iron covers and frame to drive area. All foul drainage to finally connect to existing foul system. All RWP's 68mm dia and gutters 112mm to be black round PVC to connect to back inlet gullies with access gratings; underground details similar to that of foul drainage and to discharge to existing surface water system. All drainage works to comply with BS8301.

Foundations
Foundations to be constructed of concrete common brickwork up to 150mm below ground level, with Class B engineering brickwork from GL to DPC level externally and concrete blockwork internally, built off 600mm x 200mm (C20 mix- 20N/mm²) concrete strip foundations, at min. depth of 1000mm depth to suit local ground conditions.
New internal block walls to be built off 450mm x 200mm (C20 mix- 20N/mm²) concrete strip foundations and to the satisfaction of the Supervising Officer and the Local Authority Building Inspector. Cavity fill to be brought to within minimum 225mm of new dpc level.
Cavity fill to be brought to within minimum 225mm of new dpc level.
Existing foundations to be exposed for inspection via structural engineer/building control to establish suitability to receive a second storey.

Ground Floor
65mm thick 1:4 fibre reinforced sand cement screed on 100mm Kingspan Kooltherm K3 phenolic board (thermal conductivity 0.024W/mk) 25mm Kingspan Kooltherm K3 phenolic board to be lapped vertically up perimeter of concrete slab or similar approved, to provide maximum U value of 0.22W/m²K, 100mm thick concrete slab (C20 mix- 20N/mm²) on 1 layers of 1200gauge DPM, lapped minimum 100mm with all DPC's, on 25mm sand blinding, on 150mm suitable fill.

Walls
New sections of cavity wall to be 300mm overall construction to comprise of 100mm outer skin of solid concrete block and inner skin of 7N/mm² Thermalite High Strength 7 blockwork, both skins laid on 1:6 mortar mix with plasticiser, struck flush joints and bonded together with stainless steel cavity wall ties spaced 750m horizontally and 450mm vertically, staggered in alternate rows, all cavities closed at eaves, door and window openings with Thermabate or similar insulated cavity closers. 100mm cavity partially infilled with 50mm Kingspan Kooltherm K8 Cavity Board (thermal conductivity 0.018W/mK), to provide a maximum "U" value of 0.28 W/m²K.
external face of concrete block to receive 20 mm thick sand cement render with pebble dash finish.
Internal wall to be dri-lined with 12.5mm plaster board and skim coat.
New brick/block work to be tied to existing via stainless steel strongwall connectors fixed directly to existing brickwork as per manufacturers recommendations. Vertical dpc to be fixed to the rear of the wall connector.

Internal load bearing walls:
To comprise of 100 mm & 140 mm solid dense block (7N/mm²) face of walls to receive 12.5mm wall board dri-lined to wall with 3mm finishing skim coat to the internal face only.

Non-loadbearing partitions
Comprising of 75mm x 50mm reglarised timber studs @ 400mm centres, with 100mm timber continuous header and sole plates, intermediate noggins at spacings not greater than 900mm and with 12.5mm plasterboard and skim both sides.All stud partitions to have 50mm thick accoustic insulation quilt between studs, partions within bathrooms/en-suite to incorporate foil-backed plasterboard internally.

DPCs
New sections of cavity wall to incorporate PVC type dpc at finished ground floor level.
Vertical dpc to be fixed to the rear of the wall connector.
Polypropylene cavity trays to be installed in cavity walls above all openings.
All cavity trays complete with weepholes @ maximum 1000mm ctrs to BS5628 Part 3.
Cavity tray to be installed where mono pitch roof abuts side house wall.

Lintels
New steel beam arrangement, design to structural engineers details, supported off pre-cast concrete pad stones. ***(details to be forwarded and included)***.
All structural steelwork to be provided with one hour fire resistance either by proprietary painting or by encasement or a combination of both.

Structural supports to new openings within existing and proposed walls to be provided by catnic or similar lintels as follows:-

Openings of less than 1200 mm in cavity walls: IG L1/SD100 140mm high minimum 150mm end bearing.
Openings of greater than 1200 mm in cavity walls: IG L1/HD100 160mm high minimum 150mm end bearing.

Precast concrete lintels Naylor S4 to be laid over openings in walls for drainage and services.
Lintels to be laid level and have min. end bearing of 150mm, and cased internally to give ½hr fire protection.

Leadwork
Typical abutment detail to include Code 3 lead soakers, lapping minimum 100mm under each tile, overlaid with Code 4 lead flashing (stepped). Code 4 Apron flashing to be installed at abutment of new roof with external wall, lapped minimum 75mm up brickwork minimum 150mm down slates. Abutment detail to bwk/roofs to incorporate Code 4 apron flashing lapped minimum 75mm up brickwork and turned into mortar course minimum 25mm, formed and installed in accordance with best practice and the lead association specification. All leadwork to comply with BS 1178.

Issue	Date	By	Chkd	Appd

Client
MR & MRS P GRANBY

patrick.granby@live.com

Job Title
62 DUNBABIN ROAD
CHILDWALL
LIVERPOOL
L16 7HQ

Drawing Title
PROPOSED SINGLE STOREY REAR EXTENSION & NEW FRONT DROP CROSSING, PROPOSED ELEVATIONS AND PLAN. SECTION A-A . BUILDING REGS

Scale at A1 1:50 / 1:100

Plot ID

Drawing Status
PLANNING + BUILDING REGULATION APPROVAL

Job No	Drawing No	Issue
PG 001	PG-002	Rev *