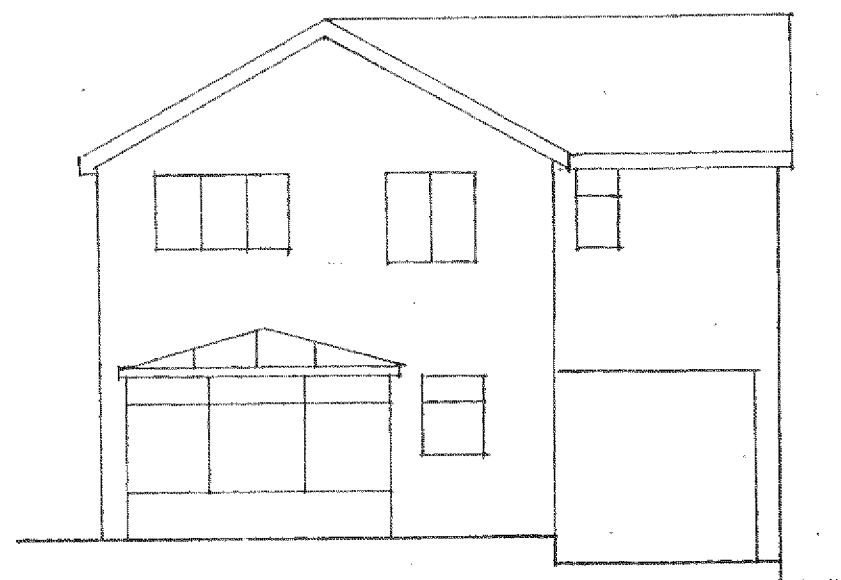
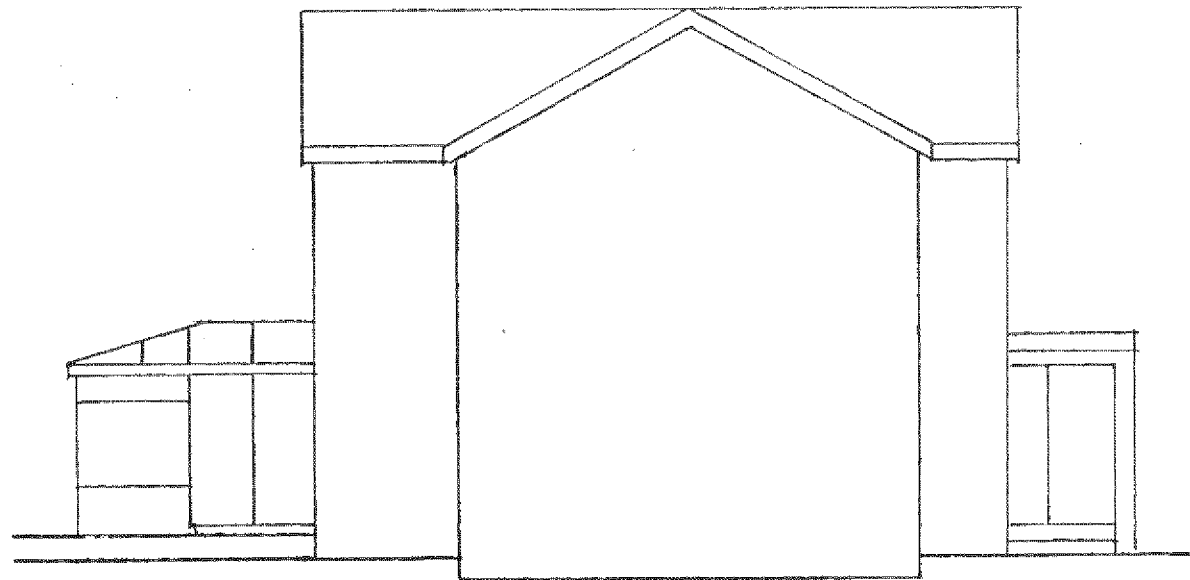


Foul Water Drainage

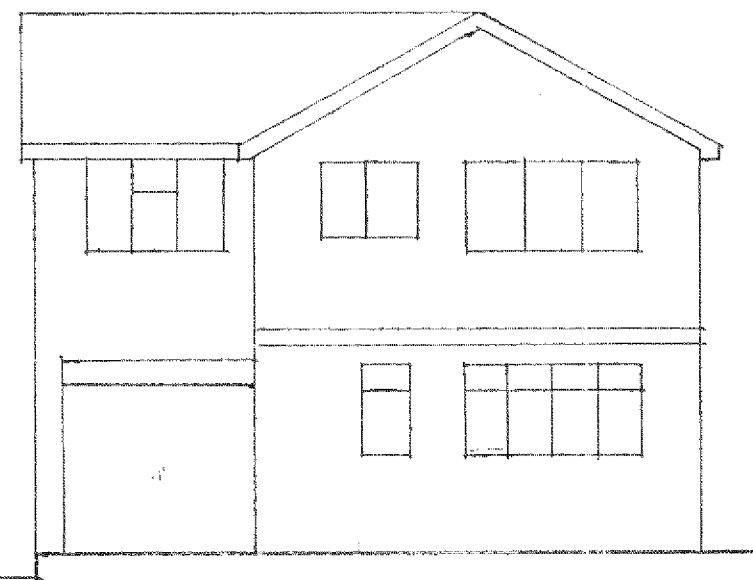
All drains to be 100mm dia UPVC pipes laid and surrounded in pea beach to fall 1 in 40, provide concrete cover where invert is less than 450mm.
All manholes within the building to be fitted with double seal screw down covers.



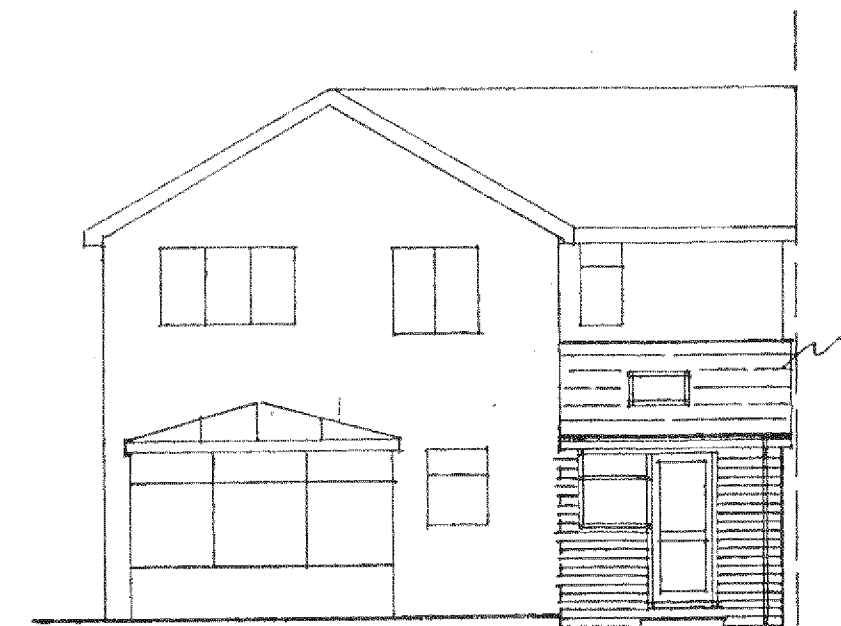
EXISTING REAR ELEVATION



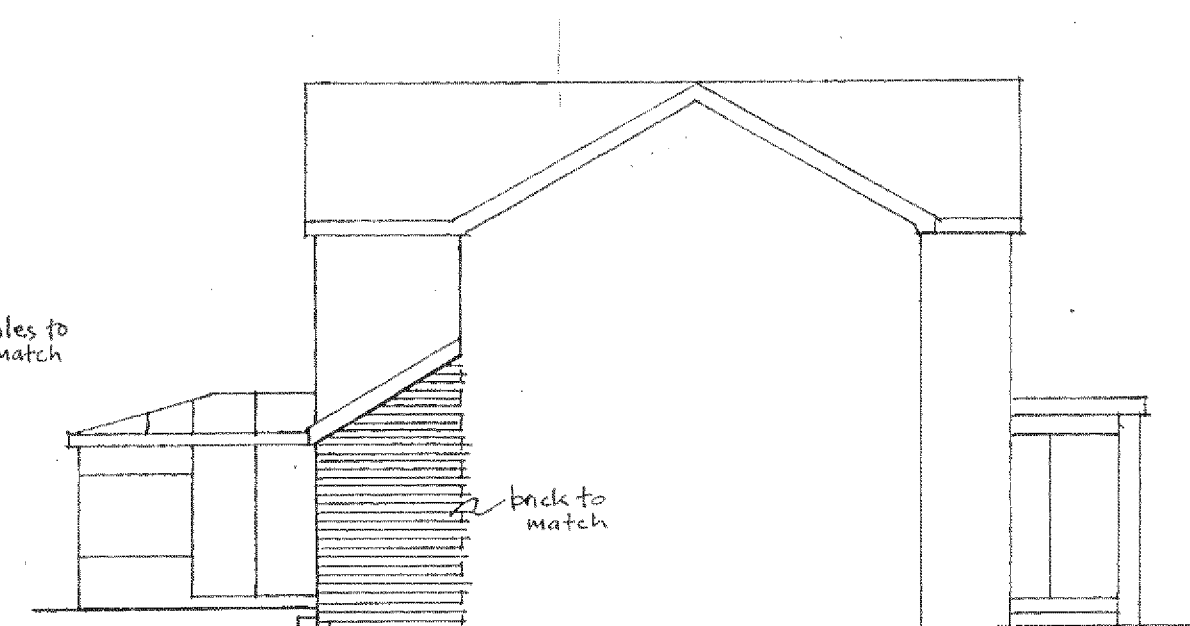
EXISTING SIDE ELEVATION



EXISTING FRONT ELEVATION



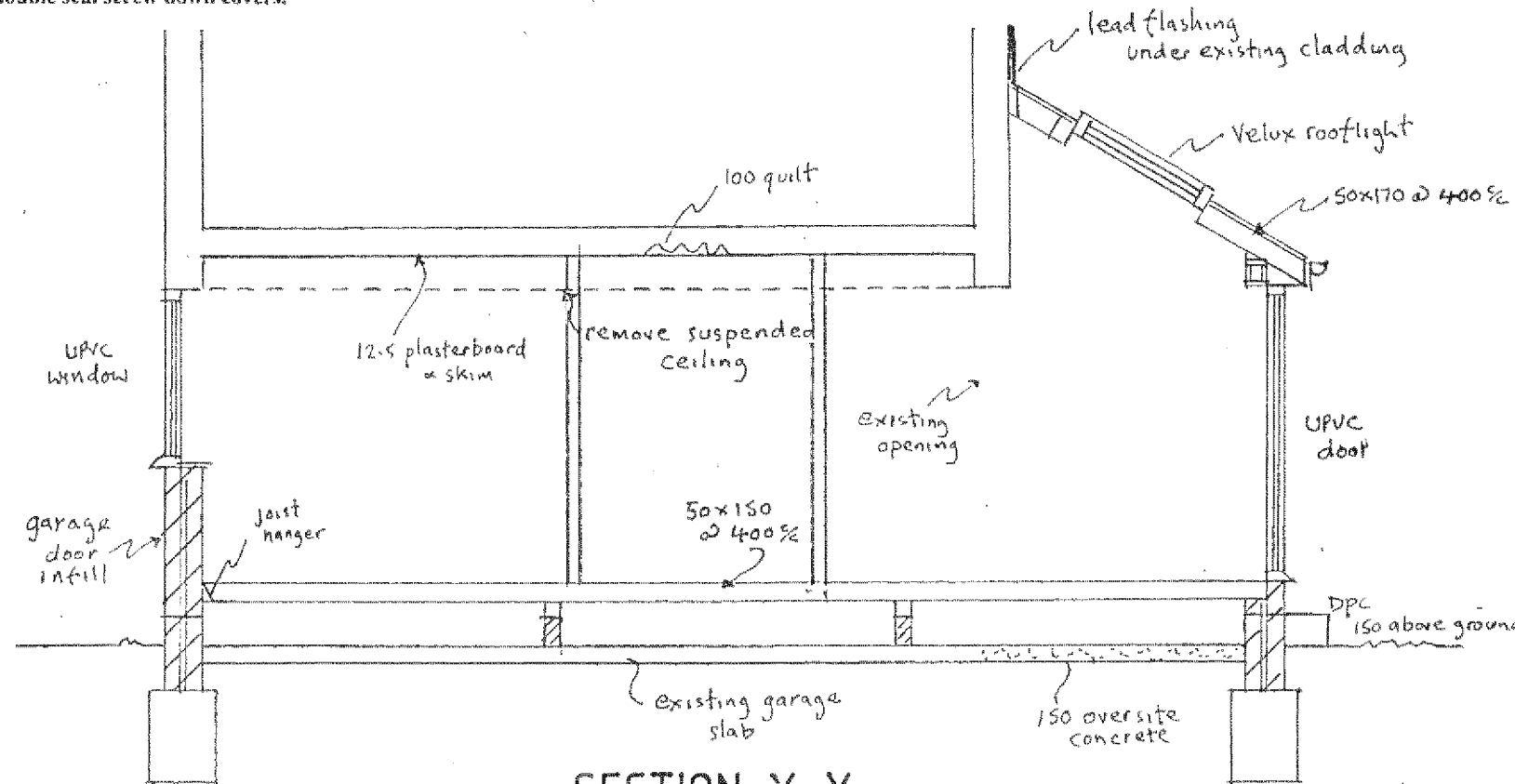
PROPOSED REAR ELEVATION



PROPOSED SIDE ELEVATION



PROPOSED FRONT ELEVATION



SECTION X-X

Foundations

750 x 500mm trench fill foundations (1:2:4 concrete mix). All foundations to be minimum 1.0m below ground level with the exact depth to suit site conditions. New foundations to go down to invert level of any adjacent drains. Internal loadbearing walls to have 225 x 450mm strip concrete foundations (1:2:4 concrete mix) taken to at least 1.0m deep or to suit site conditions. Foundations depth and floor construction may alter if tree roots are present within excavations. Foundations should be taken down to 600mm below any root growth, external face of trenches to be lined with 1000 gauge polythene slip membrane, internal face of trenches lined with 25mm thick clayboard.

External Walls

Cavity walls comprising matching 102.5mm facing brick outer leaf with 100mm cavity filled with 100mm Dritherm or Rockwool batts. Inner leaf 100mm Thermalite "Shield" or equal and approved blockwork min 3.6 N/mm². All walls constructed using 1:1:6 mortar or 1:5 masonry cement mortar. Finished with 12.5mm plasterboard on dabs and set finish internally. Providing a U value of 0.28W/m²K. Horizontal strip polymer (byload) damp proof course in each leaf of new walls min 150mm above adjacent ground level in external leaf. DPC to be lapped with existing wall DPC and with floor DPM. Ensure that at all openings no cold bridging occurs by using a proprietary system such as Thermabate Closers, or similar approved. New walls to be bonded to existing using British Board of Agrément certificated stainless steel wall profiles. Blockwork below ground level to be Class A dense concrete or alternatively semi engineering brickwork. Cavities below ground level to be filled with lean mix concrete up to ground level and min 225mm below damp proof course. Where drains pass through external walls provide 65mm deep x thickness of wall prestressed concrete lintel over in each leaf of wall. Minimum cover over drains to be 50mm clear. Mask opening with sheet material to prevent entry of fill or vermin. All walls constructed with stainless steel double triangle wall ties built in at 450mm centres vertically and 750mm centres horizontally in staggered rows. Doubled up at corners and reveals. Cavities closed at eaves level with slate and to be continuous. All external walls running parallel to roof to be restrained at roof level using 1000 x 30 x 5mm galvanised mild steel horizontal restraint straps built into walls at max 1200 centres and screw fixed to joists. The building fabric will be constructed so that there are no reasonably avoidable thermal bridges in the insulation layers caused by gaps within the various elements, at the joints between elements and at the edges of elements such as those around window and door openings. Reasonable provision to be made to reduce unwanted air leakage through the new envelope parts.

Ground Floors

Minimum 75mm screed reinforced with chicken wire (mix 1:3 or 4) on 100mm concrete ground floor slab (1:2.4 mix), on 80mm Celotex insulation laid over 1200 gauge polythene damp proof membrane on blinded hardcore minimum 100mm thick with 35mm Celotex perimeter insulation to slab. Provide additional 500g polythene between concrete slab and insulation. 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 provide 100mm dia vent duct under new floor within hardcore to terminate at new 65 x 215mm air bricks built into new cavity wall. Ducts to be sleeved through cavity with cavity tray over. Providing a U value of 0.22W/m²K.

Existing External Walls

75 x 50mm studding at 400mm centres, double up at corners and window jambs. Install 70mm Celotex tuff-R GA3000 insulation between studwork (leaving a cavity). Internally fix 12mm Celotex T-Break TB3000 over stud with 1000 gauge polythene vapour barrier and 12.5mm plasterboard with set finish. Providing a U value of 0.28 W/m²K. Provide waterproof treatment to internal of walls.

Ventilation

All new windows to be double glazed timber or UPVC with 16mm air gap and a soft low-E coating, windows to provide openable ventilation area of not less than 1/20th of the floor area of the rooms which they serve, all fitted with a minimum 8000mm² trickle ventilator. Providing a U value of 1.6W/m²K. Kitchen to be provided with an extract fan capable of extracting not less than 60 litres per second (or 30 litres per second if fitted within a cooker hood) which may be operated intermittently and ducted to external air. Internal WCs, bathroom and shower room to be provided with mechanical ventilation giving a rate of 15 litres per second, ducted to external air with 15 minute overrun and worked off light switch. Utility room to be provided with an extract fan capable of extracting not less than 30 litres per second which may be operated intermittently and ducted to external air.

Pitched Roof

Tiles to match existing on 25 x 38mm sw treated battens on breathable type sarking felt to BS747 on SC3 grade rafters at max 400mm centres. 100 x 50mm wall plate strapped to walls at 2000mm centres using 30 x 5mm mild steel straps. Fascia to match existing with soffit fitted with continuous 25mm vent and fly-proof screen. All skellings to be insulated with 90mm Celotex tuff-R GA3000 insulation between rafters, and 50mm Celotex tuff-R GA3000 insulation fixed to underside of rafters between 50x50mm cross battens. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U value of 0.18 W/m²K.

Internal Walls

Internal stud partition walls as shown to be constructed of minimum 100 x 50mm studding at 400mm centres with sw base and head plates and cross noggins at maximum 1200 centres. Studding faced both sides with 12.5mm plasterboard finished with set.

Beams and Lintels

Catnic or similar approved lintels to be used over door and window openings with min 150mm bearings. All voids within lintels to be filled with 150mm fibreglass. Steel beams to be encased to provide 1/2 hour fire protection with encasing in 2 layers of 12.5mm plasterboard fixed to wooden cradles with Gypsum plaster finish; wire bound with 1.6mm wire at 100mm centres.

Surface Water Drainage

Rainwater to 100mm half round PVC gutter laid to falls to the 65mm downpipes as shown to discharge to soakaway. New soakaway min 5m away from any building to be 1m³ below invert of drain, to be hollow ring construction. Drain to be 100 dia UPVC laid to min fall of 1 in 40, bedded and surrounded in pea beach.

Glazing

All glazing in critical locations to be of toughened or laminated safety glass in accordance with clause 5.3, BS6206; 1981.

Heating

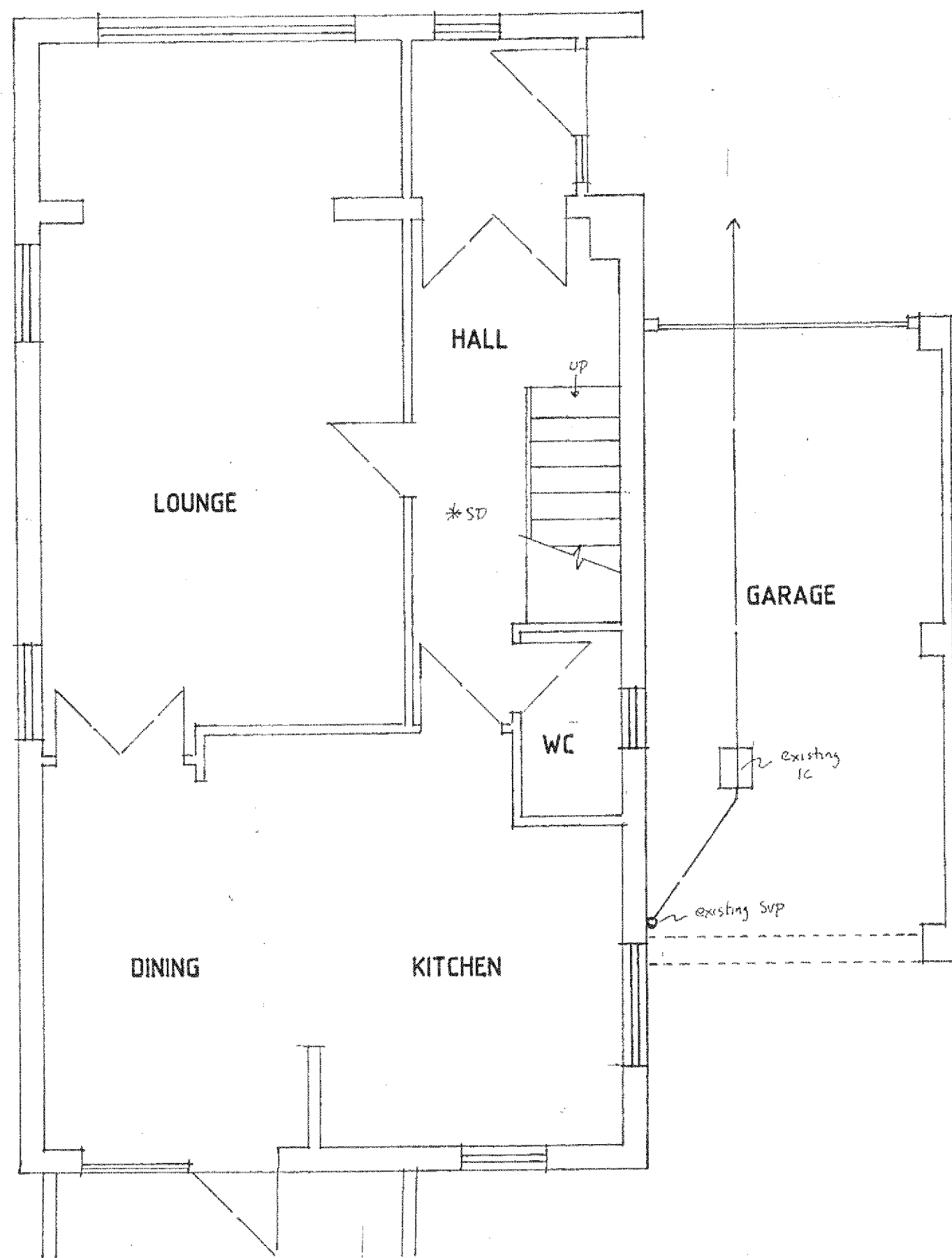
Heating to be controlled by room thermostat in living room and thermostatic radiator valve. If the boiler is to be moved or changed it must be a condensing type with a SEDBUK rating not less than 86%.

Electrical Works

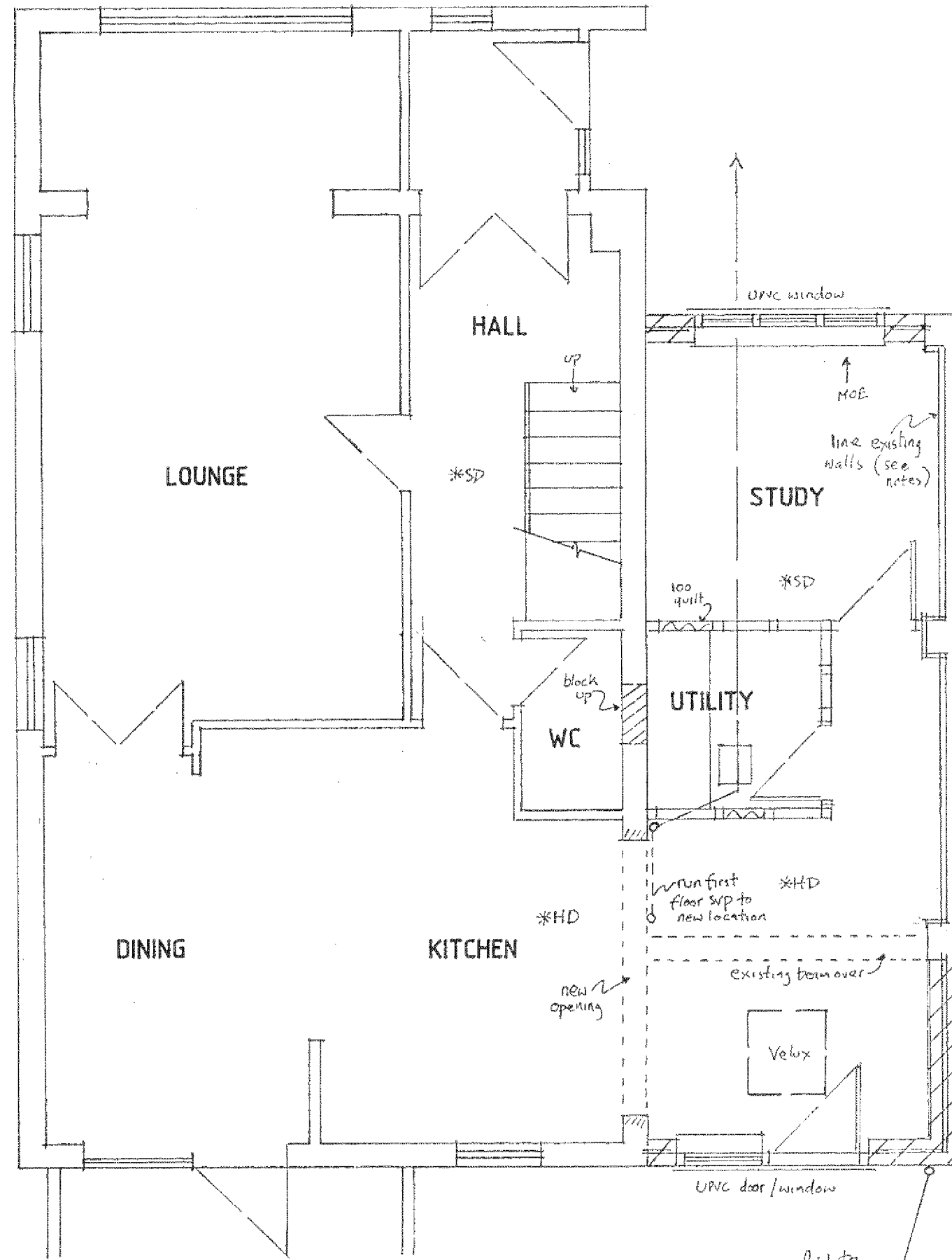
All electrical work required to meet the requirements of Part P (Electrical Safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion the council or approved inspector should be satisfied that Part P has been complied with. This may require an appropriate BS 7671 electrical installation certificate to be issued for the work by a person competent to do so. Please be advised that problems may occur when fitting down lighters. The areas of concern relate to fire prevention, sound insulation and thermal insulation. Advice should be taken from the Building Control Officer to prevent incorrect installation. Provide energy efficient light fittings to 75% of new locations with a luminous efficacy greater than 45 lamp lumens per circuit watt.

Water Supply

A wholesome supply of mains water (drinking quality) to be provided for: Drinking water taps, washbasins, baths, showers, bidets, sinks, and toilets. In accordance with the requirements of the Water Supply (water fittings) regulations 1999. Suitable quality water must be supplied to flushing toilets (i.e. recycled water, grey or harvested, can be used instead of wholesome water). The fittings to all appliances must help prevent unnecessary water consumption. Heated wholesome water must be supplied to washbasins, bidets, baths, showers and sinks. Hot water systems must be designed, constructed and installed to prevent both accidents during normal use and possible malfunctions. Hot water storage vessels must be installed to prevent the temperature exceeding 100°C. Ensure discharge from safety devices safely convey water to places that are visible. Hot water storage systems should be designed and installed in accordance with BS 6700 + A1 2009 indirectly heated unvented (closed) storage water heater should comply with BS EN 12897: 2006.



EXISTING GROUND FLOOR PLAN



PROPOSED GROUND FLOOR PLAN

1: 50



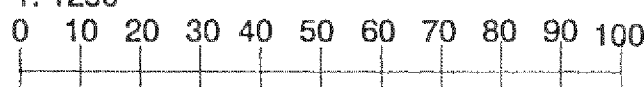
1: 100



1: 500



1: 1250



THIS DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS CALCULATIONS AND RECOMMENDATIONS

Full Building Regulation plan approval, including the approval of any structural calculations that were the subject of a Conditional Approval, to be obtained prior to commencing any works or ordering any materials. Starting work prior to full approval is undertaken entirely at the risk of client/contractor/project manager.

All lengths of proposed beams to be measured on site prior to ordering, to verify structural engineer's dimensions.

All setting out, room sizes, headroom clearances etc. particularly to stairs to be checked and confirmed prior to any ordering of materials or starting any site works.

Careful inspection is to be carried out prior to the removal of any structural elements to ensure proper and adequate support is provided and maintained by new works.

All building work is to be carried out in accordance with all current building regs and codes of practice in force at this time.

Any parts of structure covered over or inaccessible have not been inspected and no responsibility is accepted for these areas including underground.

No work to encroach over the boundary of the neighbours property.

All electric, heating, plumbing and decorations to be altered/extended all to client's choice.

These construction notes are for the purposes of Building Regulation approval only and do not represent a detailed specification.

ALL FOUNDATIONS TAKEN ADDITIONAL LOADS ARE TO BE EXPOSED AND CHECKED FOR ADEQUACY AND SUITABILITY FOR GROUND CONDITIONS PRIOR TO COMMENCEMENT OF WORKS.

All existing lintels taking additional loads are to be exposed and checked for adequacy on commencement of work and replaced if necessary.

THE PROPERTY OWNER IS REMINDED OF THE REQUIREMENT TO SERVE A PARTY STRUCTURE NOTICE ON ANY ADJOINING OWNER SHOULD THEY NEED TO DO SO UNDER THE REQUIREMENTS OF THE PARTY WALL ACT 1996.

Copyright

John Wright

12 Seamill Park Crescent
Worthing
West Sussex
BN11 2PN

Client

Mr. SINGH

Job Title

16a CUMBERLAND ROAD
ANGMERING
BN16 4BG

Drawing Title:

REAR EXTENSION AND
GARAGE CONVERSION

Scale:

1: 100 & 1: 50

Date:

Feb. 2017

Drawn by:

JW

Drg No.

JW/17/013

Rev.