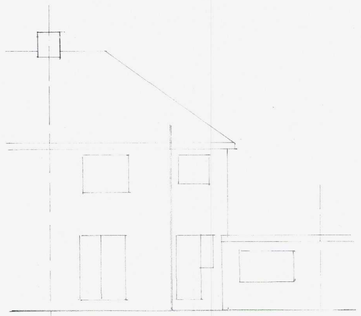
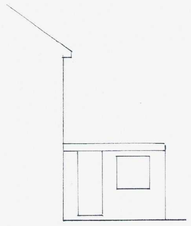


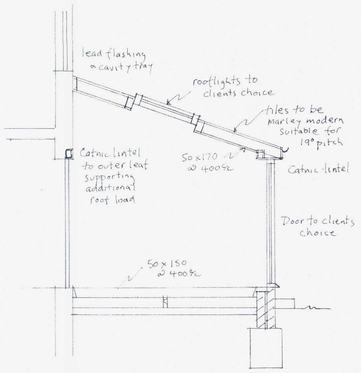
EXISTING REAR ELEVATION



EXISTING SIDE ELEVATION (S)



EXISTING SIDE ELEVATION (N)



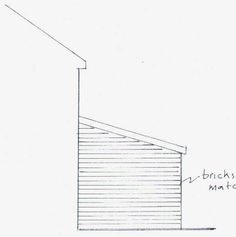
SECTION X-X



PROPOSED REAR ELEVATION



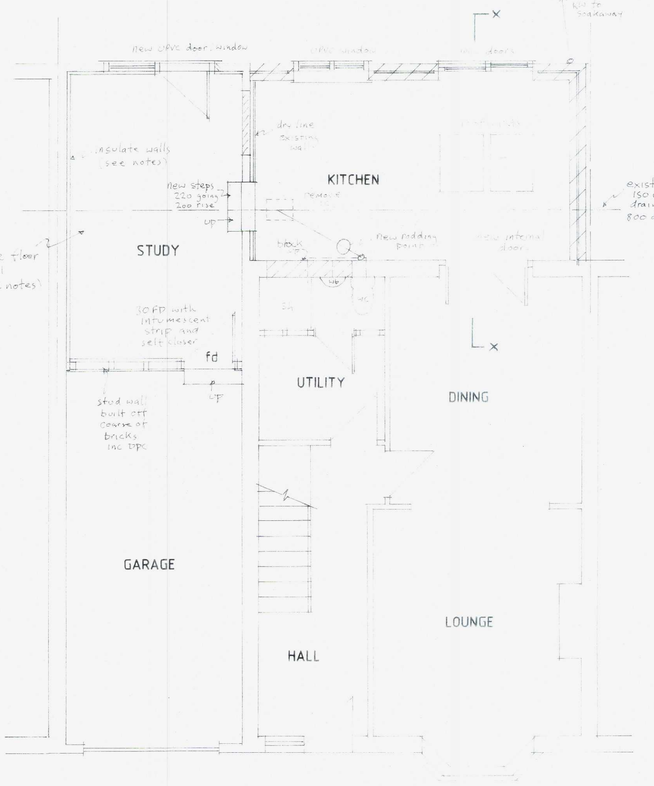
PROPOSED SIDE ELEVATION (S)



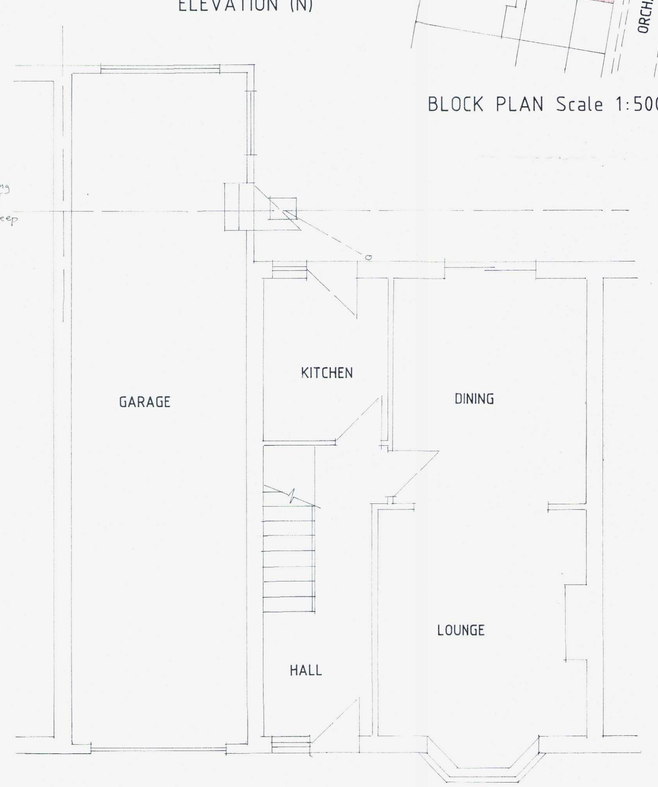
PROPOSED SIDE ELEVATION (N)



BLOCK PLAN Scale 1:500



PROPOSED GROUND FLOOR PLAN



EXISTING GROUND FLOOR PLAN

ALL FOUNDATIONS, WALLS AND LINTELS TAKEN ADDITIONAL LOADS ARE TO BE EXPOSED AND CHECKED FOR ADEQUACY AND SUITABILITY FOR GROUND CONDITIONS PRIOR TO COMMENCEMENT OF 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 electrics, 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 lengths of proposed beams to be measured on site prior to ordering, to verify structural engineer's dimensions.

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.

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. There are no tree roots are present which will effect the depth and design of the foundation.

External Walls

Cavity walls comprising matching brick outer leaf with min 85mm cavity filled with 85mm Dritherm or Rockwool. Inner leaf 100mm Thermalite "Turbo" or equal and approved blockwork min 3.5 N/mm^2. 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/m^{2}K.
Horizontal strip polymer (hyload) 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.
NEW BRICK / BLOCK WALLS TO BE PROVIDED WITH MOVEMENT JOINTS AS REQUIRED BY THE BRICK / BLOCK MANUFACTURER.

Existing External Walls

Existing external walls are 100mm brick, construct 75 x 50mm treated studding at 400mm centres inner leaf leaving a 10mm gap to existing wall. Install 70mm Celotex tuff-R GA3000 insulation between studwork, internally fix 12mm Celotex T-Break TB3000 over studs with 1000 gauge polythene vapour barrier and 12.5mm plasterboard with set finish. Providing a U value of 0.28 W/m^{2}K.

Ground Floors

Suspended timber – to be 22mm flooring grade T & G chipboard 100 x 50mm treated floor joists at 400mm centres with solid strutting at mid span insulated with 100mm Celotex Insulation, supported by timber battens, leaving a 25mm air gap between the board and the floorboards, on 100 x 50mm treated timber plates, DPC honeycomb walling at 1.8m maximum built off thickened up oversite, 100mm concrete base, 1200 gauge polythene, DPM linked to all DPCs and 150mm minimum consolidated clean hardcore. 75mm minimum air space between concrete and wside of wall plates and 150mm air gap between concrete and underside of the floor joists. Suspended floor ventilation to be provided in external walls to provide cross ventilation with 225mm x 75mm plastic air bricks at 900mm centres.

Garage Conversion Floor

22mm flooring grade tongued and grooved chipboard on a 1200 gauge polythene vapour barrier, turned up 100mm at room edges, fixed behind the skirting, 100mm Celotex Insulation, laid between 50x100 mm treated joists on existing concrete ground floor slab treated with 3 coats of RIW damp proof membrane. Existing concrete floor slab levels raised to suit finished floor levels.

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 8000mm^2 trickle ventilator. Providing a U value of 1.6W/m^{2}K.
Shower room to be provided with an extract fan capable of extracting not less than 15 litres per second, with 15 minute overrun and worked off light switch ducted to the outside and to include cowl and all necessary weathering.
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.
Velux rooflights to be fitted in accordance with manufacturers instructions, fitted with minimum 8000mm^2 trickle ventilator. Double up rafters either side. Providing a U value of 1.6W/m^{2}K.
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.

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 skeilings 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/m^{2}K.

Existing Flat Roof

Insulate with 120mm Celotex Extra-R XR3000 insulation laid between joists (Ensure a 50mm air gap above insulation) and 25mm Celotex T-Break below joists. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U value of 0.18 W/m^{2}K.

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.

Wall between Garage and Utility

Wall to be constructed of 100 x 50mm studding at 400mm centres. Studding to be lined on garage side with two layers of 12.5mm plasterboard with staggered joints. Install 80mm Celotex tuff-R GA3000 insulation between studwork (leaving a 30mm cavity). Internally fix 12mm Celotex T-Break TB3000 over studs with 1000 gauge polythene vapour barrier and 12.5mm plasterboard with set finish.
Providing a U value of 0.3 W/m^{2}K.

Foul Water Drainage

All fittings to be provided with trapped waste pipes as follows:

Shower	- 40mm diameter
Wash hand basin	- 32mm diameter
WC	- 100mm diameter

All traps to be 75mm deep seal & all waste pipes are to be fitted with rodding access on tight bends. Common wastes or runs in excess of 1.7m long are to be fitted with anti-syphonic traps.
Extend existing SVP to terminate 900mm above any window opening within 3.0m and fit with PVC cage.
New inspection chambers/manholes to be proprietary plastic mouldings supplied by "Osma" or similar approved. Installed strictly in accordance with manufacturer's instructions.
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 450m.
All manholes within the building to be fitted with double seal screw down covers.

Surface Water Drainage

Rainwater to 100m 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 1m^3 below invert of drain, to be hollow ring construction. Drain to be 100 dia UPVC lain to min fall of 1 in 40, bedded and surrounded in pea beach.

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 ½ 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.

Water Supply

A wholesome supply of mains water (drinking quality) to be provided to: 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.

Glazing

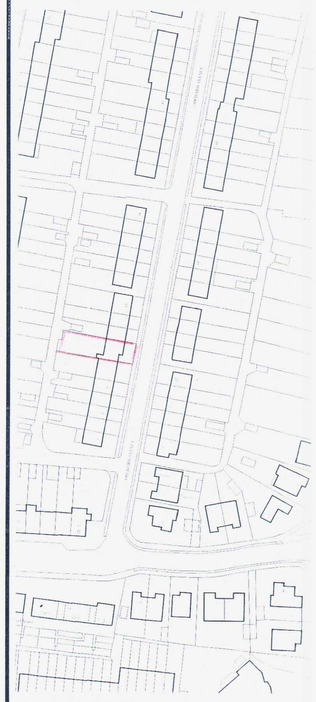
All glazing in critical locations to be of toughened or laminated safety glass in accordance with clause 5.3, BS6206; 1981.

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.



LOCATION PLAN Scale 1:1250

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Client
Mr.SUTTON

Job Title

13 ORCHARD AVENUE
LANCING

1178/14

Drawing Title:

28 AUG 2014

REAR EXTENSION AND GARAGE CONVERSION

Scale:
1:100 & 1:50

Date:
Aug. 2014

Drawn by:
JW

Drg No.
JW/14/069

Rev.

1: 50
0 1 2 3 4 5 6 7 8 9 10

1: 100
0 1 2 3 4 5 6 7 8 9 10

1: 500
0 10 20 30 40 50

1: 1250
0 10 20 30 40 50 60 70 80 90 100

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