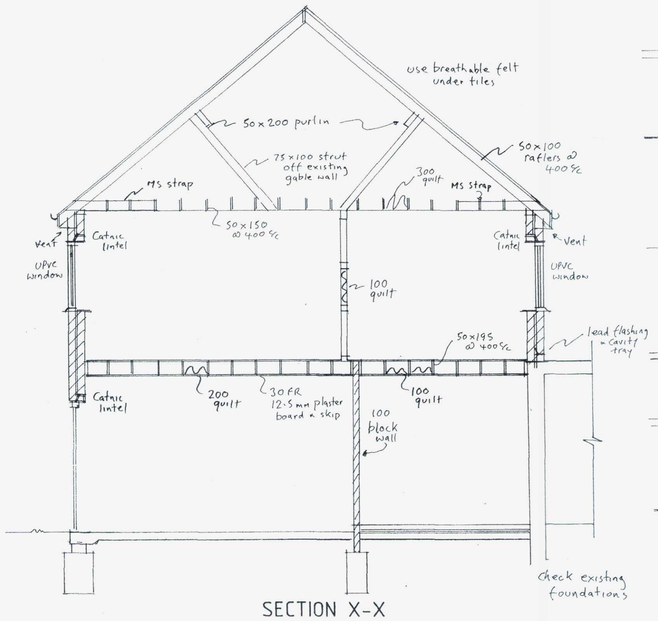
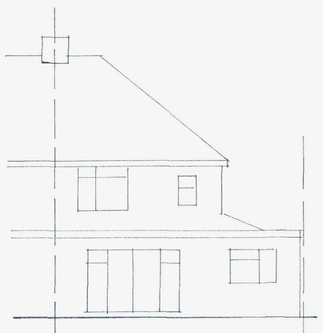
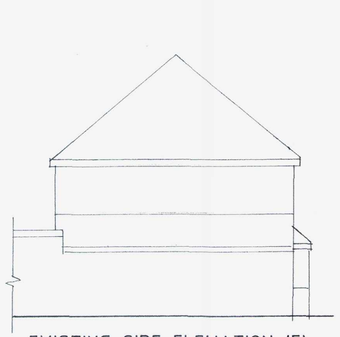


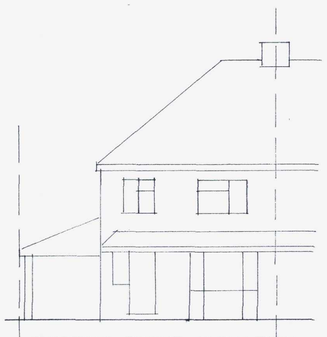
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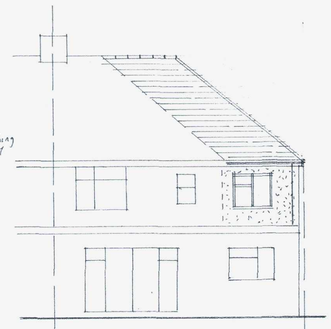
EXISTING REAR ELEVATION



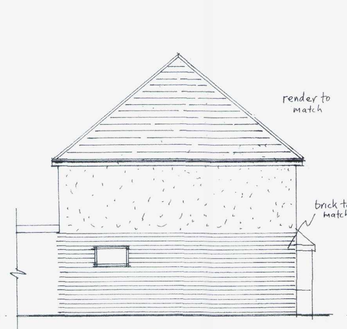
EXISTING SIDE ELEVATION (E)



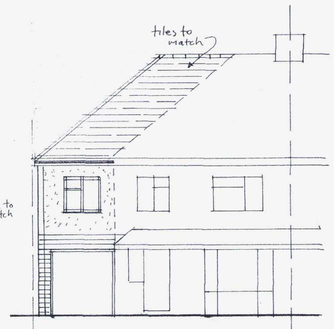
EXISTING FRONT ELEVATION



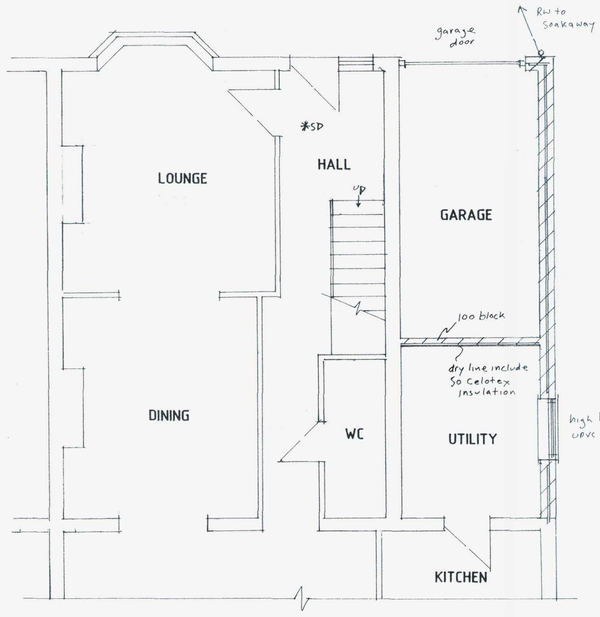
PROPOSED REAR ELEVATION



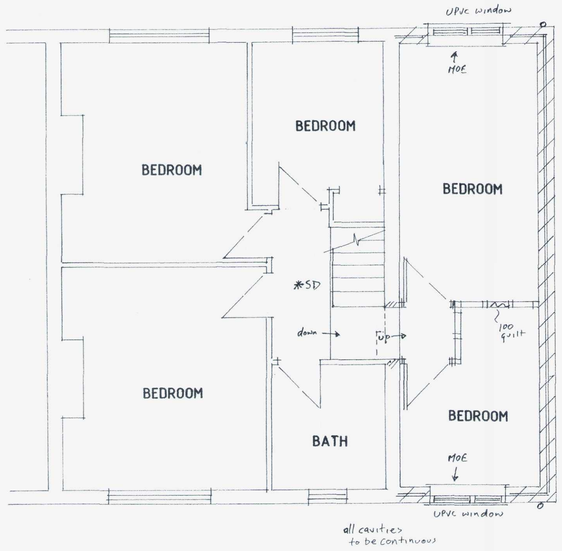
PROPOSED SIDE ELEVATION (E)



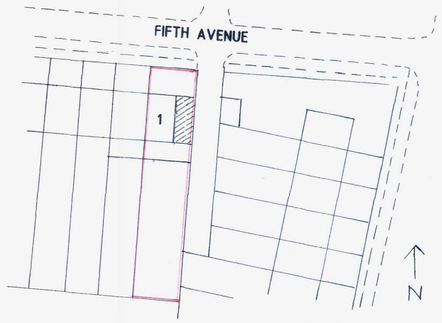
PROPOSED FRONT ELEVATION



PROPOSED GROUND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN



BLOCK PLAN Scale 1:500

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

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.

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 rendered block and brick outer leaf with min 85mm cavity filled with 85mm Dritherm or Rockwool. Inner leaf 100mm Thermalit2 "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. Windows are to overlap insulated cavity closers by a minimum of 30mm.
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.

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. 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.

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.

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.

Radon Barrier

Provide Radon barrier under floor slab by installing a 1000g polythene sheet linked to a cavity tray. To make the construction as gas tight as possible all joints between sheets and the cavity tray *should be sealed with a waterproof* tape, as should all service penetrations.

Pitched Roof

Tiles to match existing on 25 x 38mm sw treated battens on type 1F 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. SC3 grade ceiling joists at 400mm centres spiked to rafters. Fascia to match existing with soffit fitted with continuous 25mm vent and fly-proof screen. 175 x 25mm ridge, hip and valley boards. Insulate at ceiling level with 300mm Rockwool insulation quilt e.g. 150mm between joists and 150mm cross-laid. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U *value of 0.16 W/m^{2}K.*

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.
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.**

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.

Foul Water Drainage

All fittings to be provided with trapped waste pipes as follows:
Shower / Bath - 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.
Soil and vent pipe or stub stack within the building to be fitted with a "Durgo" air admittance valve. This valve to be situated above the overflow of the highest appliance.

Glazing

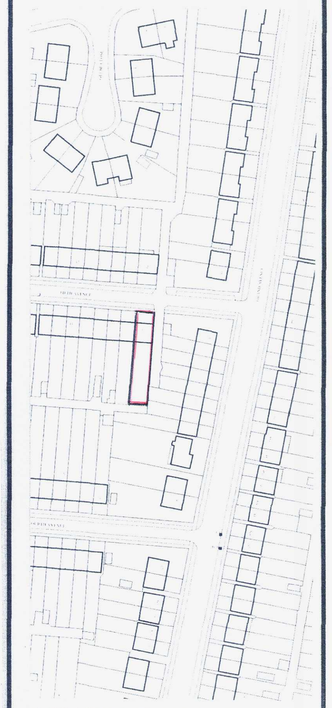
All glazing in critical locations to be of toughened or laminated safety glass in accordance with clause 5.3, BS6206: 1981.

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.

Smoke Detectors

At least one number mains operated self-contained smoke alarm to BS 5446: Part 1 to be installed in the circulation space of each storey. All smoke alarms within each dwelling to be inter-connected, be permanently wired to a separate fused circuit at the distribution boards in accordance with IEE Regulations. All smoke detectors to have an alternative battery power supply. They may operate at a low voltage via a mains transformer. Smoke alarms must be installed within 7m of the living room and kitchen door, within 3m of all bedroom doors and within 15m of each other in corridors or landings. If ceiling mounted, smoke alarms should not be installed within 300mm of a light fitting. If wall mounted, smoke alarm should not be over radiator and should be fixed elsewhere within 150 and 300mm of the ceiling.



LOCATION PLAN Scale 1:1250

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Mr.UPTON

Job Title
AMENDMENT
1 FIFTH AVENUE
LANCING

ADUR & WORTHING PLANNING SERVICES
PLAN | AWDM/ 0563/16
DATE VALID Rec 4/7/16

Drawing Title:
TWO STOREY
SIDE EXTENSION

Scale: 1:100 & 1:50

Date: May 2016

Drawn by: JW

Drg No. JW/16/049

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

Paper Size A1