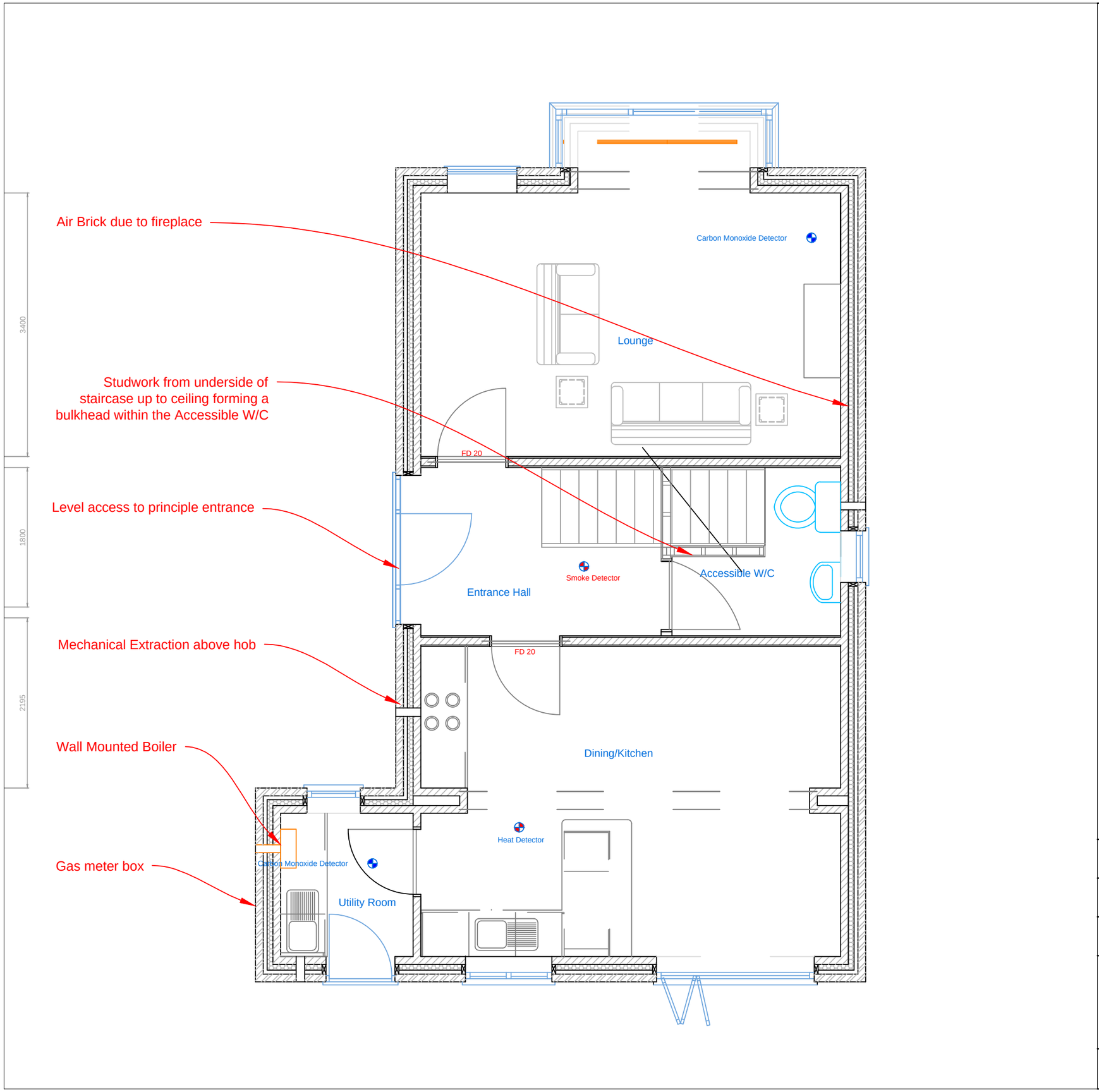

Ground floor/Radon/Floor finish

65mm cement and sand screed laid on 500 gauge polythene or Grade B1F building paper on 100mm K3 'Kingspan' insulation on 1200g damp proof membrane on 150mm ground bearing concrete slab, which is sat on sand blinded hard-core which should be a minimum of 1500 and maximum of 600mmm thick. The concrete slab should be reinforced 1200mm around the perimeter with 2 layers of B mesh, due to Radon Sump below. The installation should be to manufacturers and NHBC recommendation. Building paper / 500 gauge layer below screed to be laid with all joints overlapping a minimum of 75mm and sealed with duct tape or an equivalent. The insulation as specified to be laid with all joints staggered and tightly butted together. The 25mm edge Insulation Strip to be placed around the perimeter of every room.

A sump is to be constructed using bricks laid in a honeycomb bond so as to form a box with external dimensions of 600 x 600 mm around the edge of the pipe . The sump can be covered witha 600 x 600 mm paving slab to provide permanent formwork to support the floor slab. To avoid subsequent collapse when compacting fill around the sump, mortar should be used for horizontal joints. However, it is essential that all perpends are left open. Typically the pipe from the sump needs to be 110 mm diameter PVC-U with joints using standard couplings which are sealed and airtight. The pipe should leave the building from the external wall, and be located at the rear of the dwelling. This requirement is necessary should a fan or passive stack ventilation be required at later date. Until such time that a radon test has been undertaken, the pipe should be capped off just above ground level with an access plug to prevent vermin and rain penetration.

65mm cement and sand screed laid on 500 gauge polythene or Grade B1F building paper on 100mm Kingspan insulation on 1200g damp proof membrane on precast beam and block floor units as above, installation to manufacturers and NHBC recommendation. Building paper / 500 gauge layer below screed to be laid with all joints overlapping a minimum of 75mm and sealed with duct tape or an equivalent. The insulation as specified in clause 19 to be laid with all joints staggered and tightly butted together. The 25mm edge Insulation Strip to be placed around the perimeter of every room

Drawing:	Gound Floor Plan
Works:	New Dwelling
Client:	Mr A Price
Address:	Land adjacent to 5 Chapel Street Pen-y-cae Wrexham
Scale: 1:50	Drawing No: 15-03-03A