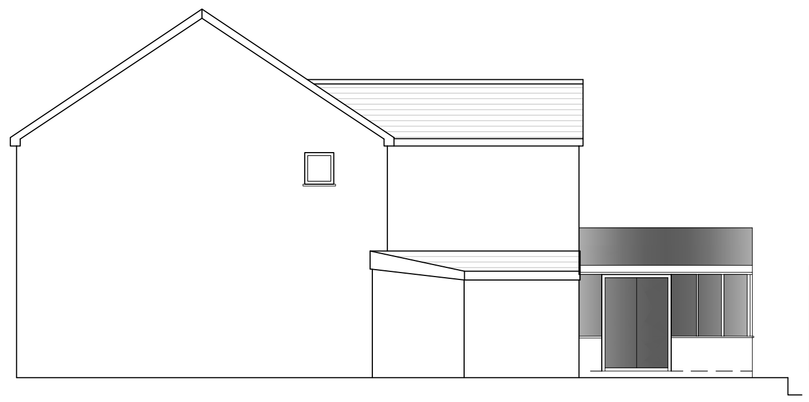
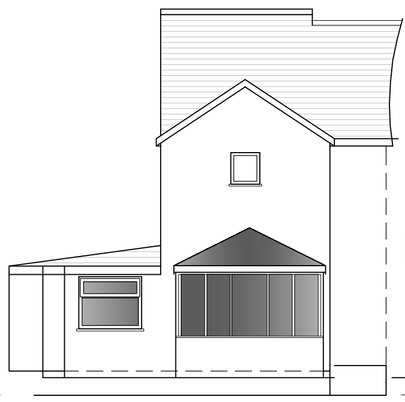
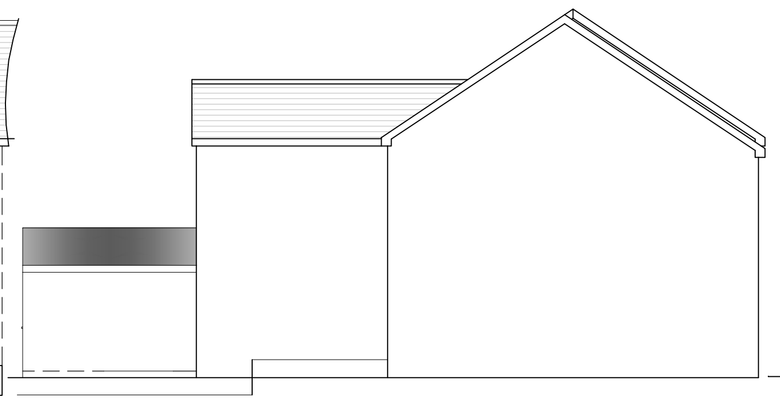


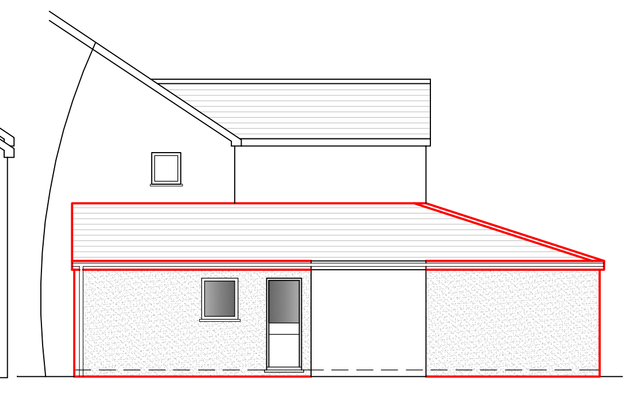
EXISTING SIDE ELEVATION 1:100



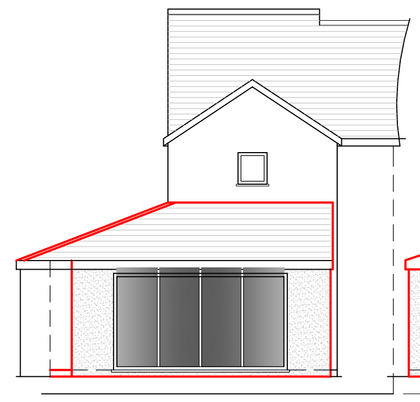
EXISTING REAR ELEVATION 1:100



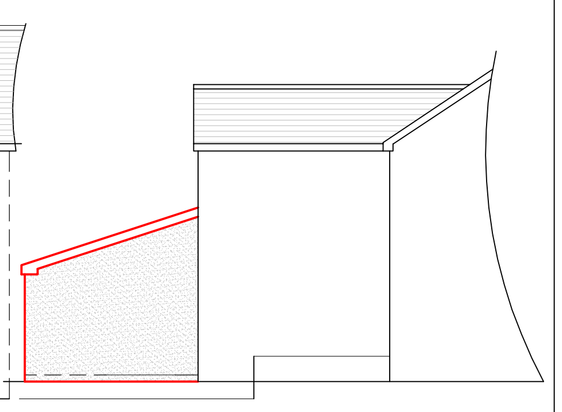
EXISTING SIDE ELEVATION 1:100



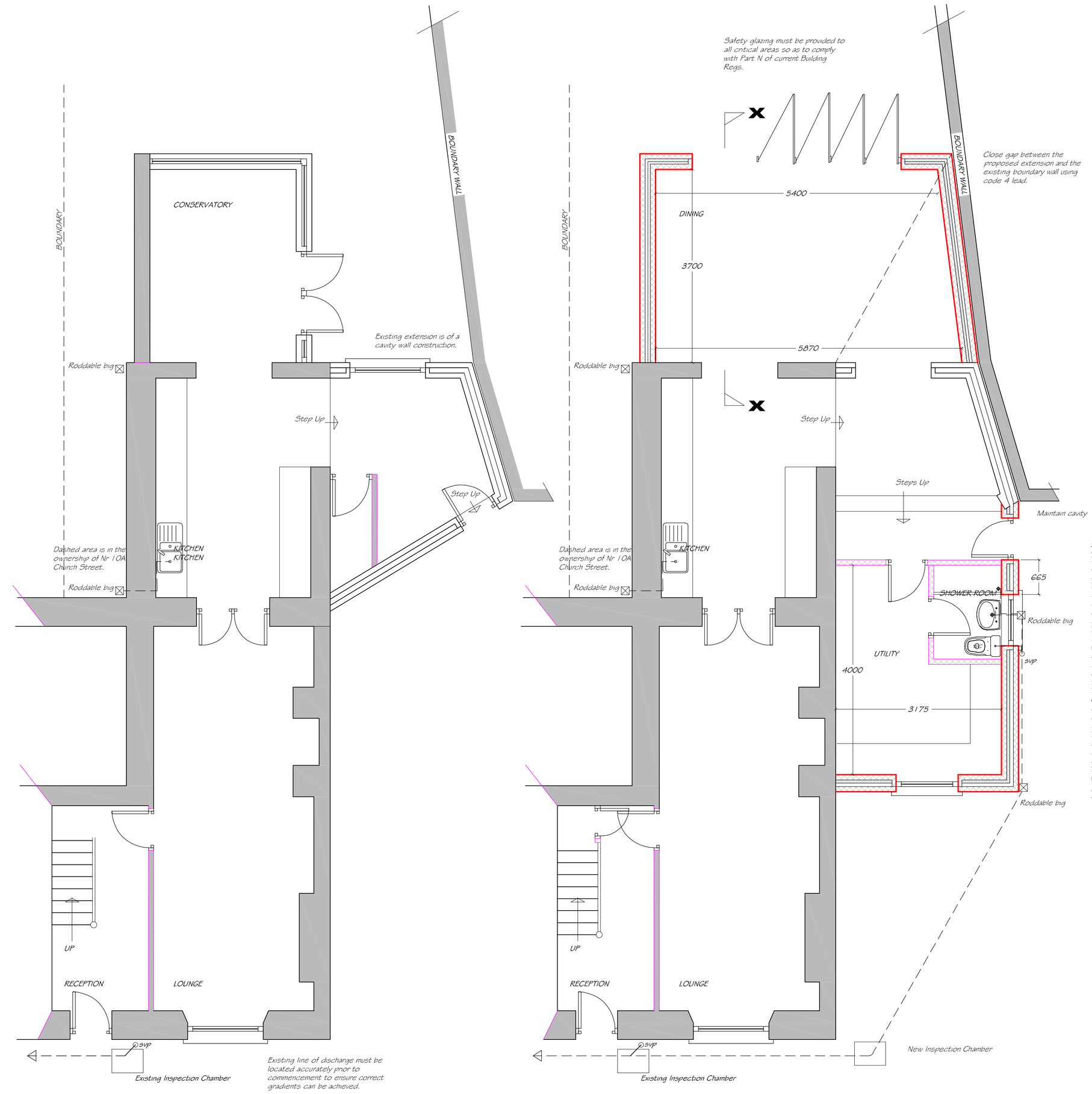
PROPOSED SIDE ELEVATION 1:100



PROP: REAR ELEV: 1:100



PROPOSED SIDE ELEVATION 1:100



EXISTING GROUND FLOOR PLAN 1:50

PROPOSED GROUND FLOOR PLAN 1:50

NOTE!
All electrical work must be carried out by a person who is competent to do so and must comply with Part P of the current Building Regulations. A certificate signed by a competent person will be required.

ROOF CONSTRUCTION
This will comprise of concrete interlocking tiles to match existing fixed in accordance with manufacturers' instructions. These to be secured to 50 x 25mm tanalised roofing battens over breathable roof felt to BS5534 on 47 x 195 C16 timber rafters at 400mm c/c. 50 x 100mm softwood wall-plate secured using 30 x 5 x 1200mm durable mild steel straps at intervals not exceeding 2metres. Ceilings to be 47x170mm C16 timber joists at 400mm c/c with 9.5mm plasterboard and 5mm plaster skim.
Provide 300mm thick 'Kingspan' or similar approved quilt insulation laid between and over joists. Must give a minimum thermal transmitance (u-value) of 0.15W/m²k. Must comply with Part L1B of the current Building Regulations.
Provide a 25mm air gap at soffit with fly-proof mesh and proprietary vent tiles to ensure through ventilation.
Hip rafter to be 75x220mm C16 timber as per Structural Calculations.

ABOVE GROUND DRAINAGE
The minimum trap sizes and seal depths for appliances are as per the following table:-

	Diameter of trap	Depth of seal
Bath	40mm	75mm
Wash-hand	32mm	75mm
Shower	40mm	75mm
WC	100mm	75mm

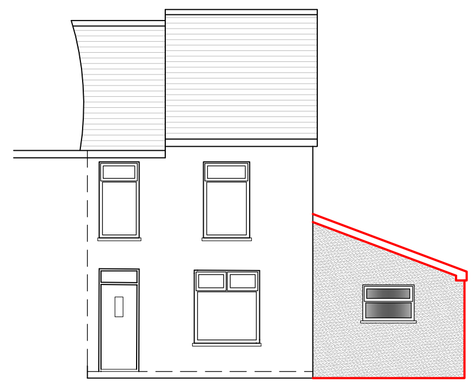
Where the length of branch exceeds 3m for a sink, bath or a shower, install an "anti-vac" valve or increase the pipe diameter from 40mm to 50mm.
Where the length of branch exceeds 1.7m for a wash-hand basin, install same "anti-vac" valve or increase the pipe diameter from 32mm to 40mm.
If the larger branch pipe sizes are used for the sink or wash-hand basin, then the diameter of the trap need not be increased, but the tail of the trap should be 50mm long before increasing the diameter.
The soil and vent pipe is to be 100mm diameter PVC.u or similar, fitted with a 200mm internal diameter rest bend which must discharge at least 900mm above any openable area which is less than 3m from the soil and vent pipe. The top of the soil and vent is to have a cage or perforated cover fitted.
Rainwater down-pipes and gutters are to be PVC.u firmly supported without restricting thermal movement. Use 75mm dia down-pipes and 115mm half round gutters.

EXTERNAL WALLS
Below ground
These are to consist of a 325mm cavity wall construction comprising of 100mm concrete block, 125mm cavity with galvanised or stainless steel wall ties spaced at 900mm c/c horizontally and 450mm c/c vertically and staggered.
The internal skin is to be 100mm concrete block, all blocks used below ground must have a minimum compressive strength of 7N/mm². The cavity is to be filled to a height of 225mm below the dpc with weak mix cement. the dpc is to be a minimum of 150mm above ground level.
Above ground
These are to consist of a 325mm cavity wall construction comprising of an external skin of 100mm blockwork, 125mm cavity with 75mm 'Kingspan' insulation fixed to the warm side of the cavity using proprietary clips. Galvanised or stainless steel wall ties of appropriate length spaced at 750mm horizontally and 450mm vertically and staggered. The internal skin is to be 100mm dense concrete block finished with two coats of sand and cement render and plaster skim. close cavity at eaves with 'superlux' or similar.
The Thermal Transmittance (u - value) of the cavity wall construction is to be 0.21w/m²k, it is recommended that the u - value at heads, cills and unbonded jambs does not exceed 1.2 w/m²k. this can be achieved by using 'thermalsate' cavity closure system or other methods described in br 143 thermal insulation: avoiding risks.
The wall ties at unbonded jambs are to be placed at a maximum of 300mm vertically and 150mm maximum horizontally from the unbonded jamb.
All lintels are to be taken from the "catnic" or "e.g." standard range, with a minimum end bearing of 150mm.
Tying-in
Where new walls are to be tied to existing, they are to be mechanically fixed using a proprietary building profile system, e.g. "furfix", "catnic" or similar. the system must be fixed in strict accordance with manufacturers written specification.

INTERNAL PARTITIONS
100mm dense concrete blockwork with s/c render and 5mm plaster skim both sides.

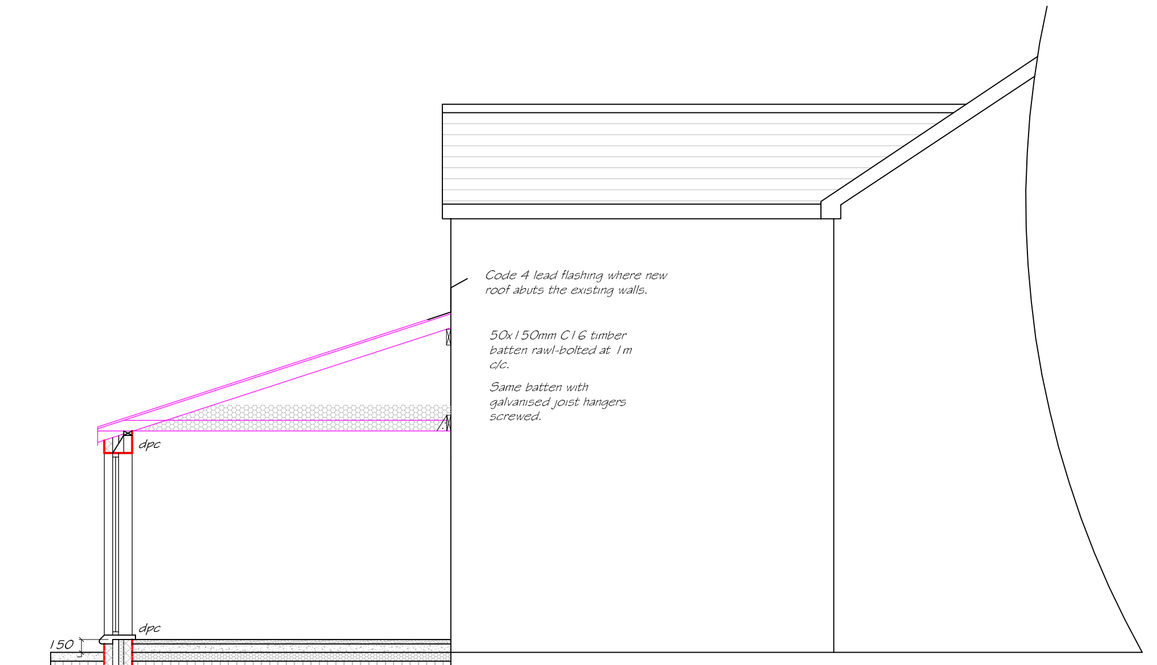
BELOW GROUND DRAINAGE
All new drains are to be 100mm diameter pvc.u, poly-pipe or similar with flexible joints laid to falls on a granular bed. minimum fall 1:40.
Where pipes pass under the building they must be encased with 150mm mn c20 grade concrete.
All back inlet gullies and rainwater gullies must have roddable access.
All new manholes are to be constructed of class B engineering bricks to BS 3921 (1985) and laid in english bond with 1: 3 sand cement mortar to BS 5628, on a 150mm mn C20 concrete base. All entries to the manhole are to be formed using 3/4 section channels. Inspection Chambers are to be fitted with light weight galvanised cover and frame. If the manhole is to be internal use double sealed bolted down type.
Notel all works must comply with BS 8301.





EXISTING FRONT ELEVATION 1:100

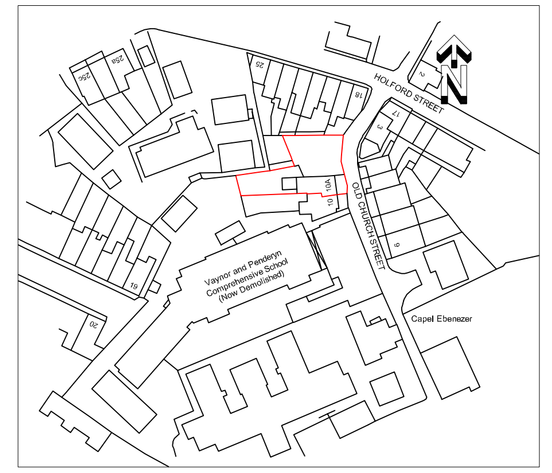
PROPOSED FRONT ELEVATION 1:100



SECTION X-X 1:50

GROUND FLOOR CONSTRUCTION
This is to comprise of 50mm thick 1:3 sand and cement screed on 100mm C20 concrete. Kingspan or similar approved insulation is to be placed below the oversite concrete in the form of 75mm thick 'Kingspan' or similar approved 2400 x 1200 mm rigid slabs with a maximum k-value of 0.026 w/mk, laid directly on 2 layers of 1200 gauge visqueen damp-proof membrane laid continuous with the horisontal dpc. Joints between membranes must be sealed to produce an air-tight joint.
The double dpm is laid on 150mm minimum compacted grade 1 sub-base hardcore. Blind with sand. Connect membrane to dpc. The hardcore should be compacted in layers of 100mm with the maximum depth of hardcore not to exceed 600mm. The thermal transmittance (u-value) of the floor construction is to be a maximum of 0.18 w/m²k.

FOUNDATIONS
The foundations for the cavity wall construction are to be C20 grade concrete strip foundations 600 x 300mm. They are to be taken down to a minimum depth of 750mm, however the actual depth will be dependent upon the actual depth sound bearing strata and is subject to a site inspection by the local authority's' Building Control Department.
Where a drainage trench is within one metre of the building, the trench must be filled to a depth level with the underside of proposed foundation. Where the trench is more than one metre from the building, it must be filled with concrete to a depth of not less than 150mm below the underside of the proposed foundation.



LOCATION PLAN 1:1250

Client:	Project:	Drawing Title:	Date:
CAROLE TINELLI	**PROPOSED SINGLE STOREY EXTENSION AT: 10A, OLD CHURCH STREET, CEFN COED, MERTHYR TYDFIL**	**EXISTING & PROPOSED PLANS. ELEVATIONS & SECTION**	**JUNE 2021**