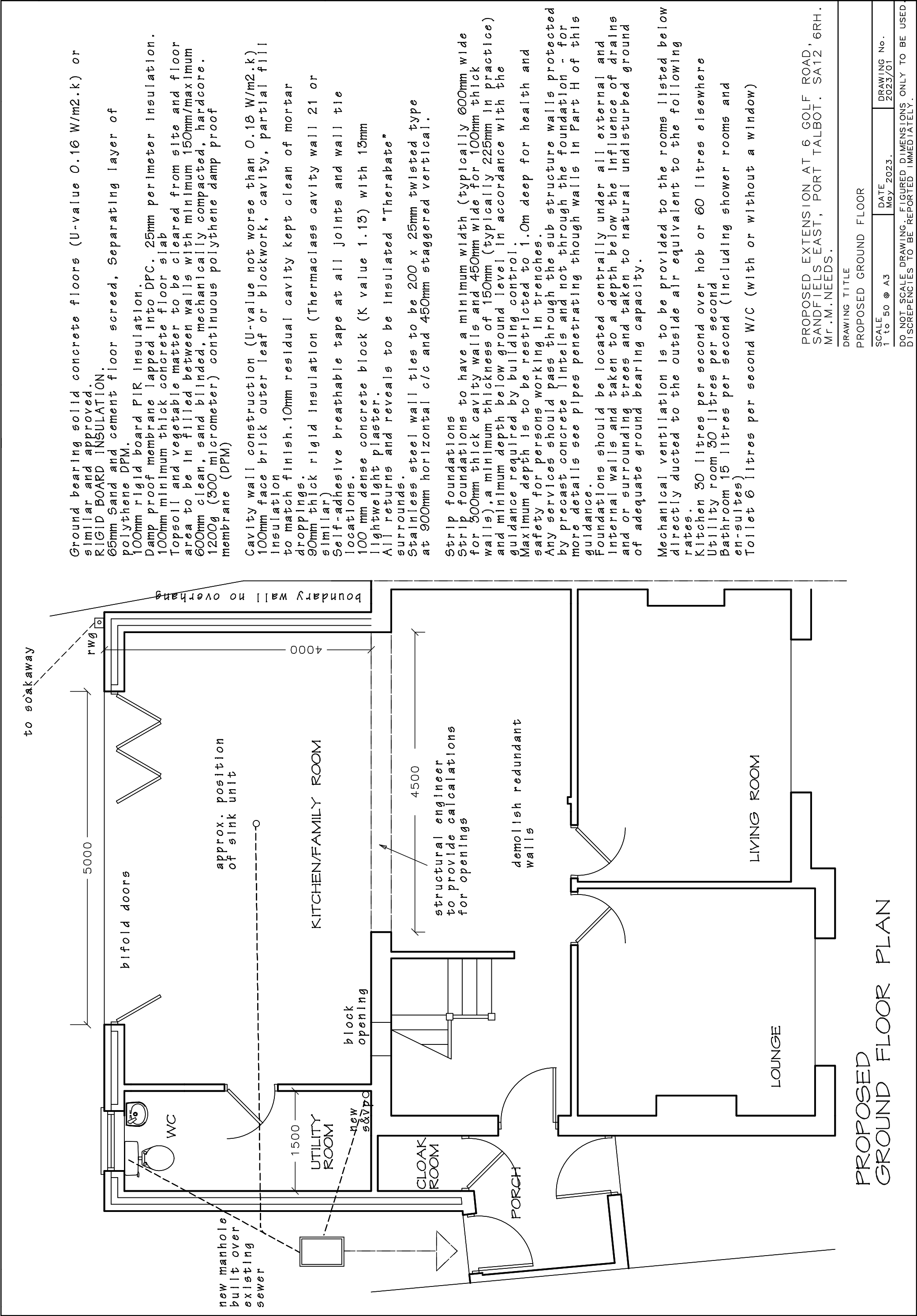




Ground bearing solid concrete floors (U-value 0.16 W/m2.k) or similar and approved.

RIGID BOARD INSULATION.

65mm Sand and cement floor screed, Separating layer of polythene DPM.

100mm rigid board PIR insulation.

Damp proof membrane lapped into DPC. 25mm perimeter insulation.

100mm minimum thick concrete floor slab

Topsoil and vegetable matter to be cleared from site and floor area to be in filled between walls with minimum 150mm/maximum 600mm clean, sand blinded, mechanically compacted, hardcore.

1200g (300 micrometer) continuous polythene damp proof membrane (DPM)

Cavity wall construction (U-value not worse than 0.18 W/m2.k)

100mm face brick outer leaf or blockwork, cavity, partial fill insulation

to match finish.10mm residual cavity kept clean of mortar droppings.

90mm thick rigid insulation (Thermaclass cavity wall 21 or similar)

Self-adhesive breathable tape at all joints and wall tie locations.

100 mm dense concrete block (K value 1.13) with 13mm lightweight plaster.

All returns and reveals to be insulated "Therabate" surrounds.

Stainless steel wall ties to be 200 x 25mm twisted type at 900mm horizontal c/c and 450mm staggered vertical.

Strip foundations

Strip foundations to have a minimum width (typically 600mm wide for 300mm thick cavity walls and 450mm wide for 100mm thick walls), a minimum thickness of 150mm (typically 225mm in practice) and minimum depth below ground level in accordance with the guidance required by building control.

Maximum depth is to be restricted to 1.0m deep for health and safety for persons working in trenches.

Any services should pass through the sub structure walls protected by precast concrete lintels and not through the foundation - for more details see pipes penetrating though walls in Part H of this guidance.

Foundations should be located centrally under all external and internal walls and taken to a depth below the influence of drains and or surrounding trees and taken to natural undisturbed ground of adequate ground bearing capacity.

Mechanical ventilation is to be provided to the rooms listed below directly ducted to the outside air equivalent to the following rates.

Kitchen 30 litres per second over hob or 60 litres elsewhere

Utility room 30 litres per second

Bathroom 15 litres per second (including shower rooms and en-suites)

Toilet 6 litres per second W/C (with or without a window)