

**NOTES**

- Concrete to reach a strength of 28N/mm<sup>2</sup> at 28 days.
- Blockwork strength to be a minimum of 3.5N/mm<sup>2</sup>, unless below ground, then to be 7N/mm<sup>2</sup>

**FOUNDATIONS**

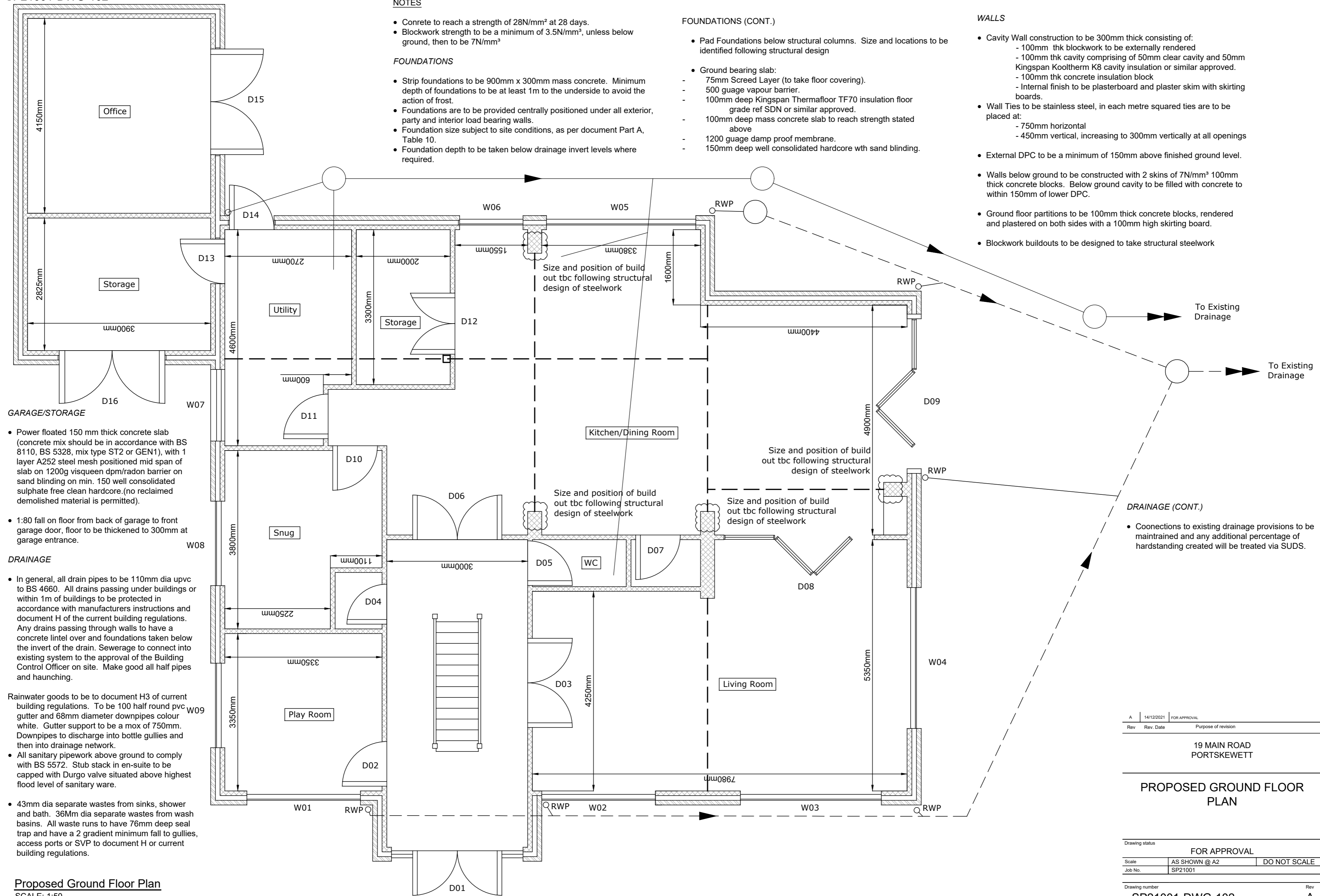
- Strip foundations to be 900mm x 300mm mass concrete. Minimum depth of foundations to be at least 1m to the underside to avoid the action of frost.
- Foundations are to be provided centrally positioned under all exterior, party and interior load bearing walls.
- Foundation size subject to site conditions, as per document Part A, Table 10.
- Foundation depth to be taken below drainage invert levels where required.

**FOUNDATIONS (CONT.)**

- Pad Foundations below structural columns. Size and locations to be identified following structural design
- Ground bearing slab:
  - 75mm Screed Layer (to take floor covering).
  - 500 gauge vapour barrier.
  - 100mm deep Kingspan Thermafloor TF70 insulation floor grade ref SDN or similar approved.
  - 100mm deep mass concrete slab to reach strength stated above
  - 1200 gauge damp proof membrane.
  - 150mm deep well consolidated hardcore with sand blinding.

**WALLS**

- Cavity Wall construction to be 300mm thick consisting of:
  - 100mm thk blockwork to be externally rendered
  - 100mm thk cavity comprising of 50mm clear cavity and 50mm Kingspan Kooltherm K8 cavity insulation or similar approved.
  - 100mm thk concrete insulation block
  - Internal finish to be plasterboard and plaster skim with skirting boards.
- Wall Ties to be stainless steel, in each metre squared ties are to be placed at:
  - 750mm horizontal
  - 450mm vertical, increasing to 300mm vertically at all openings
- External DPC to be a minimum of 150mm above finished ground level.
- Walls below ground to be constructed with 2 skins of 7N/mm<sup>2</sup> 100mm thick concrete blocks. Below ground cavity to be filled with concrete to within 150mm of lower DPC.
- Ground floor partitions to be 100mm thick concrete blocks, rendered and plastered on both sides with a 100mm high skirting board.
- Blockwork buildouts to be designed to take structural steelwork



• Power floated 150 mm thick concrete slab (concrete mix should be in accordance with BS 8110, BS 5328, mix type ST2 or GEN1), with 1 layer A252 steel mesh positioned mid span of slab on 1200g visqueen dpm/radon barrier on sand blinding on min. 150 well consolidated sulphate free clean hardcore. (no reclaimed demolished material is permitted).

• 1:80 fall on floor from back of garage to front garage door, floor to be thickened to 300mm at garage entrance.

**DRAINAGE**

- In general, all drain pipes to be 110mm dia upvc to BS 4660. All drains passing under buildings or within 1m of buildings to be protected in accordance with manufacturers instructions and document H of the current building regulations. Any drains passing through walls to have a concrete lintel over and foundations taken below the invert of the drain. Sewerage to connect into existing system to the approval of the Building Control Officer on site. Make good all half pipes and haunching.

Rainwater goods to be to document H3 of current building regulations. To be 100 half round pvc gutter and 68mm diameter downpipes colour white. Gutter support to be a max of 750mm. Downpipes to discharge into bottle gullies and then into drainage network.

- All sanitary pipework above ground to comply with BS 5572. Stub stack in en-suite to be capped with Durgo valve situated above highest flood level of sanitary ware.

- 43mm dia separate wastes from sinks, shower and bath. 36mm dia separate wastes from wash basins. All waste runs to have 76mm deep seal trap and have a 2 gradient minimum fall to gullies, access ports or SVP to document H or current building regulations.

**DRAINAGE (CONT.)**

- Connections to existing drainage provisions to be maintained and any additional percentage of hardstanding created will be treated via SUDS.

Rev	Rev. Date	Purpose of revision
A	14/12/2021	FOR APPROVAL
19 MAIN ROAD PORTSKEWETT		
<b>PROPOSED GROUND FLOOR PLAN</b>		
Drawing status: FOR APPROVAL		
Scale	AS SHOWN @ A2	DO NOT SCALE
Job No.	SP21001	
Drawing number	SP21001-DWG-102	Rev A

**Proposed Ground Floor Plan**  
SCALE: 1:50