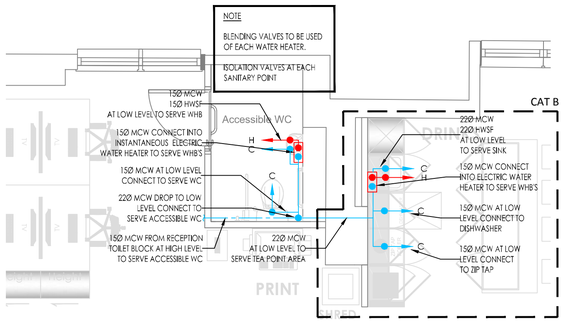
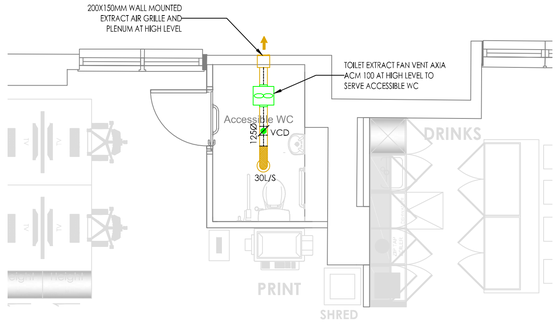
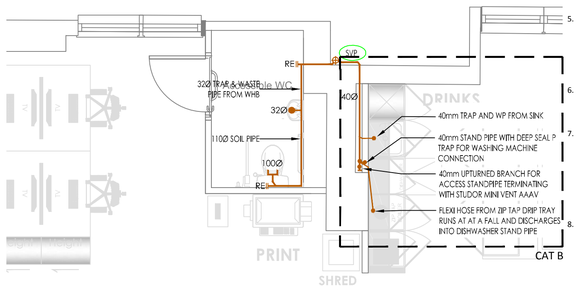
0m | 1m | 2m | 3m | 4m

1:50

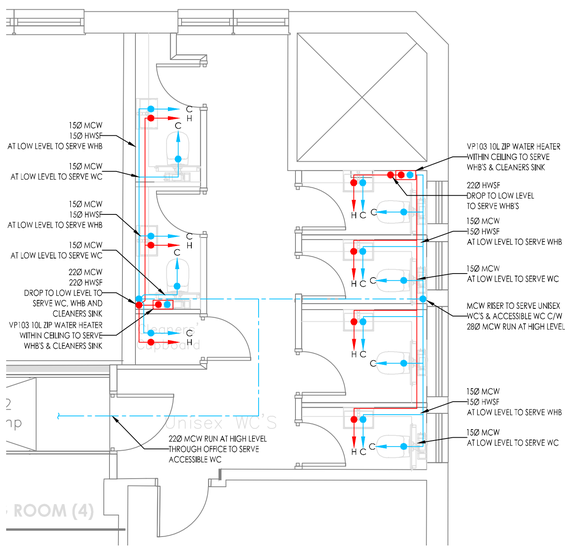


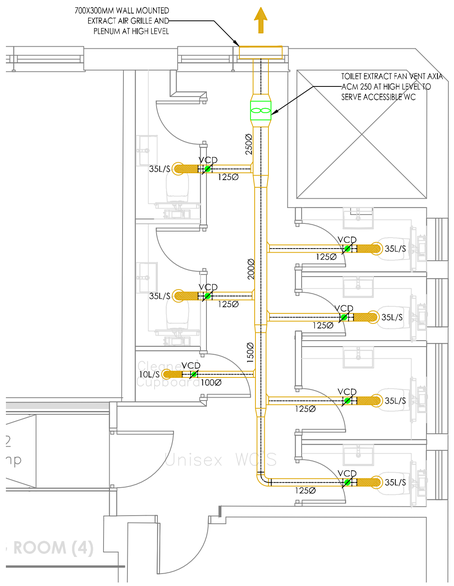


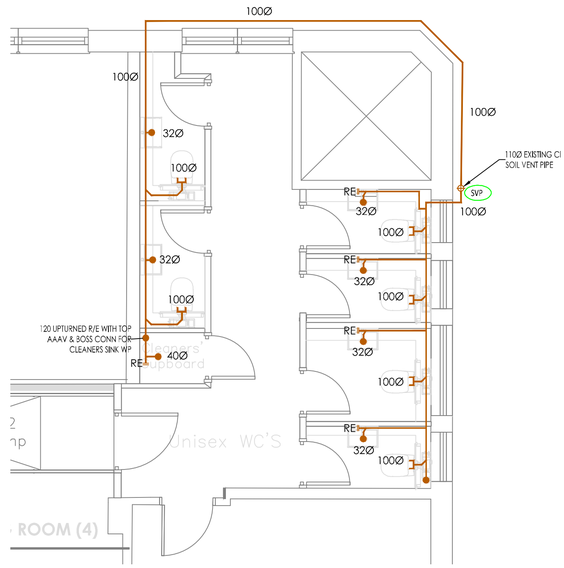


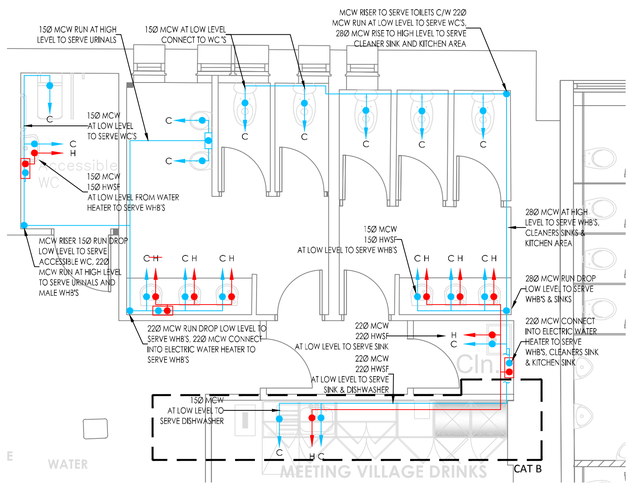
Notes

1. This drawing shall be read in conjunction with the relevant Mechanical Services specification(s) and all relevant Architect's and other Engineer's drawing(s).
2. Details are for tender purposes only and shall be verified on site by the Engineering Contractor where accuracy is critical. The exact location of all plant items/equipment and the route of all services shall be determined on site.
3. All plant, equipment, distribution system components and ancillaries shall be installed in strict accordance with the manufacturer's guidelines.
4. The installation personnel shall allow for changes in distribution system(s) invert levels (including any sets up and down etc.) as necessary to coordinate fully with the building structure and other M&E Services.
5. The installation of all internal and external units, refrigerant pipework, interconnecting wiring, commissioning and testing shall be carried out by a specialist refrigerant systems installer. The installer shall be certified and approved by the AC equipment manufacturer to carry out installation and commissioning of their equipment. This certification and approval status shall be current and valid upto at least the end of the defects liability period.
6. All interconnecting AC pipework shall be designed by AC equipment manufacturer, including the selection of all pipe sizes, refrigerant flow control devices (e.g. Refnet branch piping kits, branch selector units etc.) and other ancillary components.
7. The MEC shall carry out all interconnecting refrigerant pipework associated with the AC systems, including all refrigerant flow control components (Refnet branch piping kits, branch selector units etc.). All pipework shall be carried out in refrigerant quality soft/medium drawn copper tubing to BS2871 Part 2: 1972, complete with the appropriate headers and joints. Pipework shall be carried out by an Approved Refrigerant Engineer and accordance to BSEN 378: 2000 Specification and the AC equipment manufacturer's design and installation instructions. All pipework shall be suitable for the refrigerant used.
8. The MEC shall carry out all associated condensate discharge pipework. The condensate lines from the AC indoor units shall discharge into the above ground drainage system via a Hepworth HepVO dry trap, or shall discharge safely over the nearest floor gulley. The exact method and discharge position shall be agreed with the Consulting Engineer prior to installation. All condensate pipework shall be either half-hard copper to EN1057-R250: Table X with matching compression fittings or plastic with matching solvent-weld joints. The pipework shall be laid to sufficient falls to ensure standing water does not occur. Access tees shall be fitted at each change of direction.
9. The MEC shall carry out all interconnecting controls wiring associated with the AC systems. Any control or communication wiring shall not be run next to power wiring. A minimum space of 100mm between both control and power cables shall apply.
10. Unless stated otherwise, all AC controllers shall be wall-mounted at 1,200mm AFFL.
11. Unless stated otherwise, all AC remote temperature sensors shall be wall-mounted at 1,500mm AFFL.

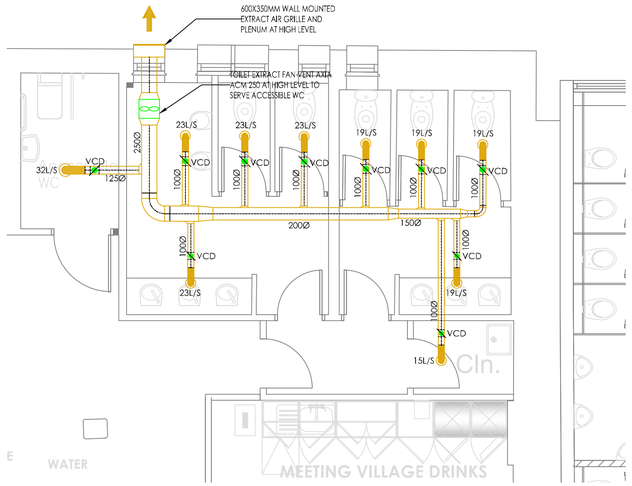




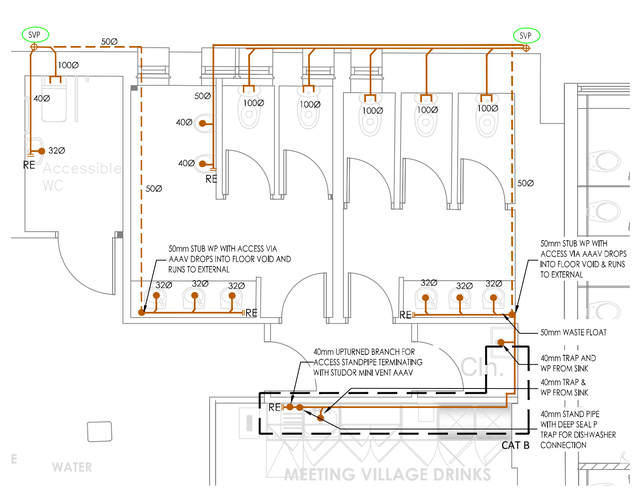




DOMESTIC WATER SERVICES LAYOUT



TOILET EXTRACT SERVICES LAYOUT



DRAINAGE SERVICES LAYOUT

Note:
All dimensions to be checked on site
No dimensions to be scaled unless otherwise stated

Notes

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DRAWING STATUS

FOR APPROVAL

Rev.	Description	Date / Initial

CAPITA

energy

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Design	MIKE McCORMACK
Drawn By	STACEY ROBINSON
Scale @A1	1:50
Date	10.06.19
Project	CAPITA CHURCHGATE HOUSE
Drawing No.	P913 CGH 5F M02
Revision	
Drawing Title	PROP MECH SERVICES TO SERVE CGH TOILETS