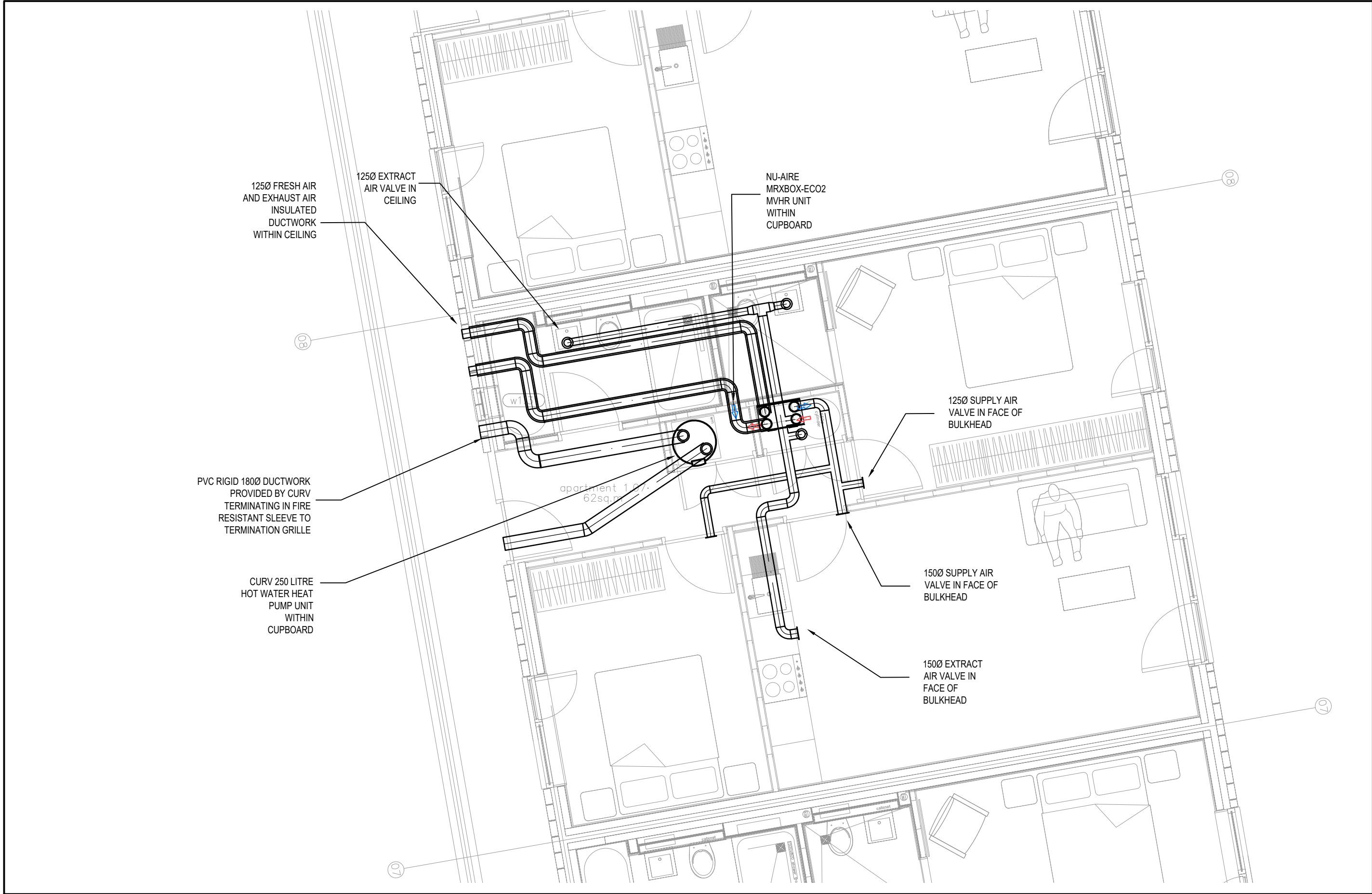
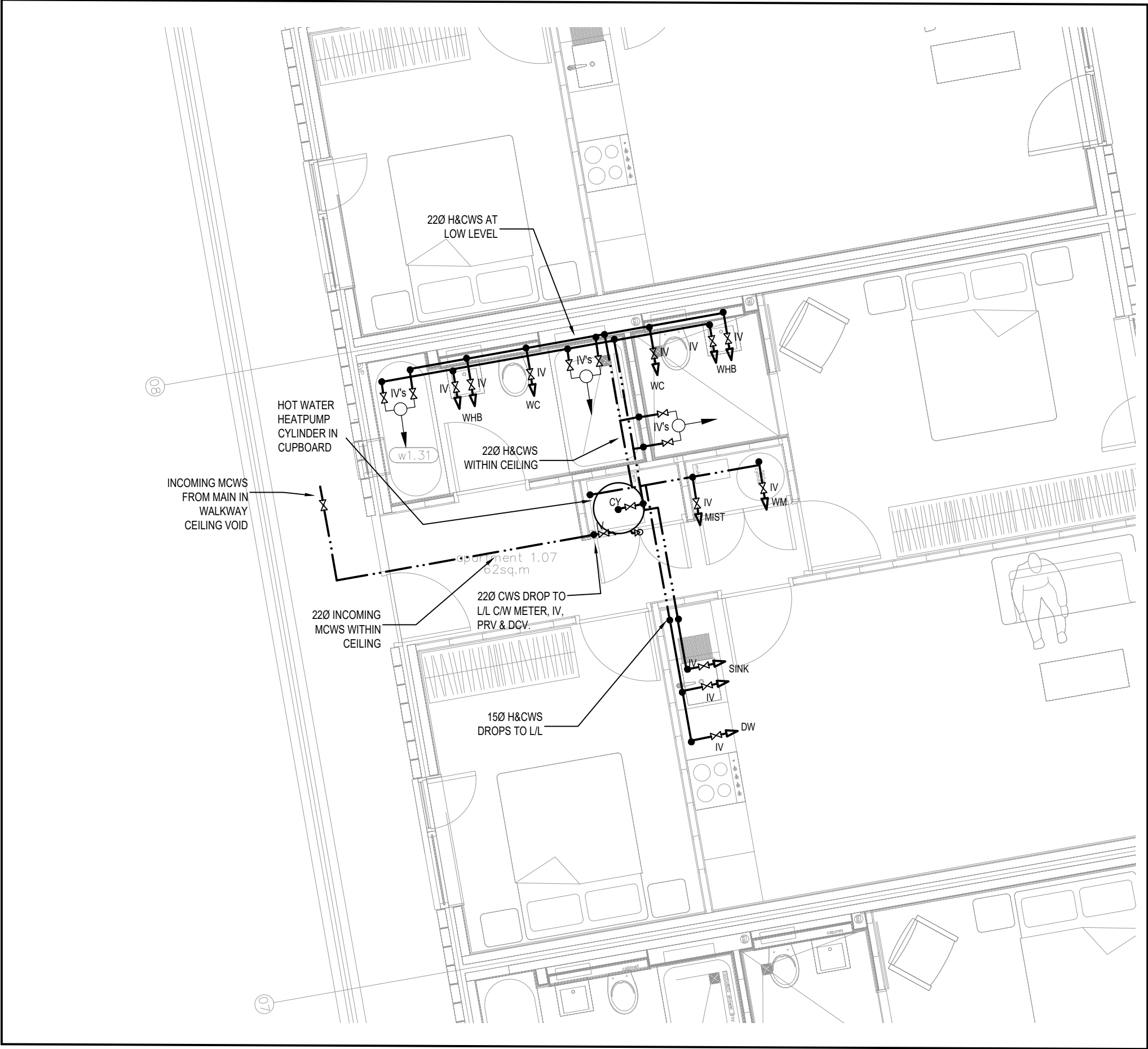




VENTILATION LAYOUT SCALE 1:50

- NOTES:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DOCUMENTATION.
 2. ALL DUCTWORK AND ANCILLARIES SHALL BE INSTALLED IN ACCORDANCE WITH DW154.
 3. ALL PLANT REFERENCES ARE SPECIFIC TO THE INDIVIDUAL ITEMS OF PLANT. FOR SCHEDULES PLEASE REFER TO SPECIFICATION / DWGS.
 4. ALL DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED AS DETAILED WITHIN THE SPECIFICATION.
 5. FLEXIBLE DUCTWORK SHALL NOT EXCEED 600mm IN LENGTH IN THE FULLY EXTENDED POSITION.
 6. FLEXIBLE DUCTWORK SHALL NOT BE USED TO FORM 90° BENDS OR OFFSETS.
 7. TO ENSURE GOOD AIR TRANSFER THROUGHOUT DWELLING ALL INTERNAL DOORS TO BE UNDERCUT BY 10mm ABOVE FLOOR FINISH / 20mm ABOVE UNFURNISHED FLOOR BOARDS IN LINE WITH BUILDING REGULATIONS PART F TABLE 5.2C

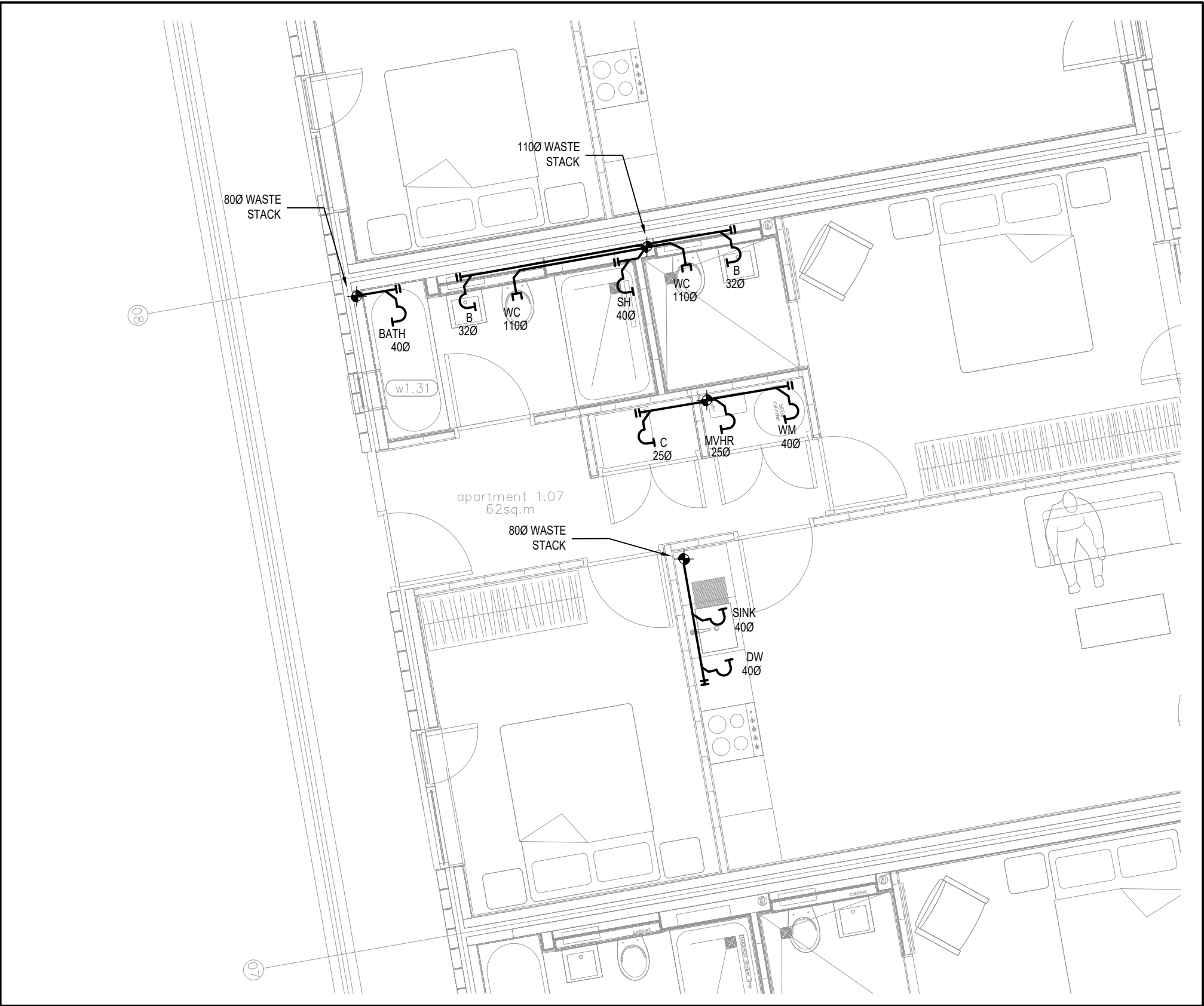
- NOTES:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS, CONTRACT DOCUMENTATION, SCHEDULES AND SPECIFICATION FOR THE WORKS.
 2. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 3. DO NOT SCALE FROM THIS DRAWING.
 4. DRAIN COCKS TO BE FITTED AT ALL LOW POINTS.
 5. SERVICE VALVES SHALL BE FITTED TO ALL APPLIANCES.
 6. ALL PIPE WORK TO BE INSULATED BY MECHANICAL CONTRACTOR. ALL LOW LEVEL PIPE WORK AND PIPE DROPS IN OCCUPIED ROOMS TO BE BOXED-IN BY THE MAIN CONTRACTOR.
 7. ALL PIPE WORK ROUTES AND POSITIONS OF EQUIPMENT ARE INDICATIVE. EXACT ROUTES AND POSITIONS ARE TO BE AGREED ON SITE WITH THE ANDIOR ENGINEER.
 8. ALL EQUIPMENT SHALL BE LOCATED/POSITIONED TO SPATIAL REQUIREMENTS FOR MAINTENANCE AS RECOMMENDED BY THE MANUFACTURER.
 9. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS.
 10. ALL PIPE WORK TO BE PRESSURE TESTED AND INSULATED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
 11. ALL INSULATED PIPE WORK SHALL BE FITTED WITH APPROPRIATE IDENTIFICATION BANDING.
 12. ALL EQUIPMENT SUPPORTED FROM WALLS/Ceilings/FLOORS TO BE FIXED BY A METHOD TO BE APPROVED BY THE CONSULTING ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
 13. ALL PIPE WORK RUNS TO BE SITE COORDINATED WITH ELECTRICAL TRAY/BASKET AND CONDUIT.
 14. ALL EXPOSED PIPE WORK TO BE PAINTED TO MATCH SURROUNDINGS C/W MATCHING COVER PLATES.



WATER SERVICES LAYOUT SCALE 1:50

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- CDM NOTES:**
1. WORKING FROM HEIGHT - USE OF SAFE WORKING PLATFORMS TO BE USED.
 2. WORKING AT HEIGHT - RISK OF TOOLS OR EQUIPMENT BEING DROPPED ONTO OPERATIVES BELOW - RESTRICT ACCESS TO AREAS DIRECTLY BELOW WHERE WORKS ARE BEING CARRIED OUT.
 3. INSTALL SERVICES WITHIN CEILING AND CEILING/SERVICE VOIDS - RISK OF FALL. INHALATION OF DUST FIBRES - SUITABLE USE OF SAFE PLATFORMS AND USE ADDITIONAL PPE IE DUST MASKS, GLOVES ETC.
 4. USE OF HAZARDOUS MATERIALS - HAZARDOUS MATERIALS HAVE NOT BEEN SPECIFIED IN THE NEW WORKS. COSHH SHEETS TO BE PROVIDED WHERE APPLICABLE AND SUITABLE PPE TO BE USED BY STAFF.
 5. MANUAL HANDLING OF PLANT AND EQUIPMENT - EQUIPMENT IS GENERALLY SMALL ENOUGH TO BE SUITABLE FOR MANUAL HANDLING. MECHANICAL MEANS TO BE USED TO LIFT LARGER ITEMS.
 6. CUTTING, DRILLING ETC. OF METALWORKS SUCH AS TRAY CONDUIT TRUNKING ETC. - NORMAL SAFETY PROCEDURES TO BE USED, PROVIDE PROTECTIVE CLOTHING GOGGLES ETC.



DRAINAGE LAYOUT SCALE 1:50

- NOTES - DRAINAGE INSTALLATIONS**
1. ALL SANITARY PIPE WORK SVP'S TO BE THE SOLVENT WELDED TYPE. BRANCH PIPES TO BE PVC-U TYPE SOLVENT WELDED. WASTE PIPES AND FITTINGS CONCEALED WITHIN DEMOUNTABLE BOXING AND SERVICE VOIDS.
 2. FALLS ON SOIL WASTE AND VENT PIPES SHALL NOT FALL BELOW THE MINIMUM STATED IN BS EN 12056-2. VERTICAL PIPE SOCKETS HAVE BEEN ANCHORED WITH SOCKET CLIP AND A BARREL CLIPS FITTED AT 1.8 METRES CENTRES. MAXIMUM HORIZONTAL RUNS ARE ANCHORED AT SOCKETS AND BARREL CLIPS AT 1.000 CENTRES.
 3. ALL MAIN SOIL/WASTE VENT PIPES (SVP'S) VENT TO ATMOSPHERE. SOIL STACKS TERMINATING ABOVE THE ROOPLINE ARE TO BE ARRANGED TO TERMINATE VIA A DOMESTIC CAGE WEATHERPROOF FLASHED DETAIL, COLLAR AND COWL.
 4. ACCESS DOORS AND RODDING EYES ARE TO BE PROVIDED TO EVERY SVP AT EVERY 3rd FLOOR. THESE ARE TO BE LOCATED ABOVE THE FLOOD LEVEL OF THE HIGHEST APPLIANCE ON THE FLOOR SERVED. ACCESS PANELS ARE TO BE PROVIDED AT ALL CHANGES OF DIRECTION AND ABOVE THE CONNECTION POINT TO THE BELOW GROUND DRAINAGE.
 5. ALL TRAPS SHALL BE OF THE ANTI-SIPHON TYPE.
 6. ALL PIPES WHICH PASS THROUGH FIRE RATED WALLS AND FLOORS ARE TO BE FIRE PROTECTED WITH UNICOLLAR INTUMESCENT FIRE PROTECTION COLLARS (MIN 1 HOUR FIRE RATING) TO BS 476 - FIRE TESTS ON BUILDING MATERIALS AND STRUCTURES. WHERE A PIPE PASSES THROUGH A FLOOR OR WALL, A CLASS 0 INSULATION MATERIAL SHALL BE USED TO FILL ANY GAP BETWEEN THE PIPE AND THE STRUCTURE TO AVOID SOUND BRIDGING.
 7. THE COMPLETE SYSTEM SHALL BE INSPECTED FOR LEAKS IN ACCORDANCE WITH BS EN 12056. AIR SHALL BE PUMPED INTO THE SYSTEM UNTIL A PRESSURE EQUAL TO 38MM WATER GAUGE IS ACHIEVED. THE INLET VALVE SHALL BE CLOSED AND THE SYSTEM SHALL MAINTAIN THE PRESSURE FOR A MINIMUM OF THREE MINUTES.
 8. ALL PIPES 50MM DIAMETER & LARGER SHALL BE FITTED WITH FIRE COLLARS WHEN FIRE COMPARTMENTS ARE PENETRATED.
 9. ALL HORIZONTAL PIPES SHALL BE SET AT 1:40 TO ENABLE SELF-CLEANING. ALL TEE FITTINGS TO INCLUDE SWEEP BENDS.
 10. ANCHORS SHALL BE INSTALLED AT GROUND/FLOOR LEVEL AND INCLUDE EXPANSION COUPLINGS IN THE VERTICAL SVP's.
 11. WATER CYLINDER WASTE PIPE SHALL BE IS VIA A TUNDSH FROM WATER CYLINDER SAFETY VALVE AND DISCHARGE IN TO 320 HIGH TEMPERATURE RESISTANT PIPEWORK C/W DRY TRAP.



HEATING LAYOUT SCALE 1:50

- KEY**
- ELECTRIC RADIATOR
 - ELECTRIC TOWEL RAIL
 - ADAX NEO WALL MOUNTED ENERGY EFFICIENT ELECTRIC PANEL HEATER C/W INBUILT LOT 20 COMPLIANT 7-DAY TIMER OUTPUT REFER TO SEPERATE SCHEDULE
 - WALL MOUNTED CHROME PLATED TOWEL RAIL / HEATER WITH INTEGRAL CONTROLLER AND TIME CLOCK

T1	TENDER ISSUE	14.02.25
Rev.	Description	Date
PSD PROGRESSIVE SERVICES DESIGN LTD 21 Argyle Street Birkenhead CH41 1AD Tel: 0151 647 0857 Fax: 0151 647 0858 E-mail: admin@psdtd.co.uk		
BUILDING SERVICES CONSULTANCY		
Client: Properties ADE4 Limited		
Project: Bridgewater House		
Drawn:	C.F.	Checked: C.F.
Scale:	1:50(A1)	Date: JAN 25
Title: Indicative Typical Apartment Type A Mechanical Services Layout		
Drawing Number: 2182-M-50-01-AP-A		Rev: T1