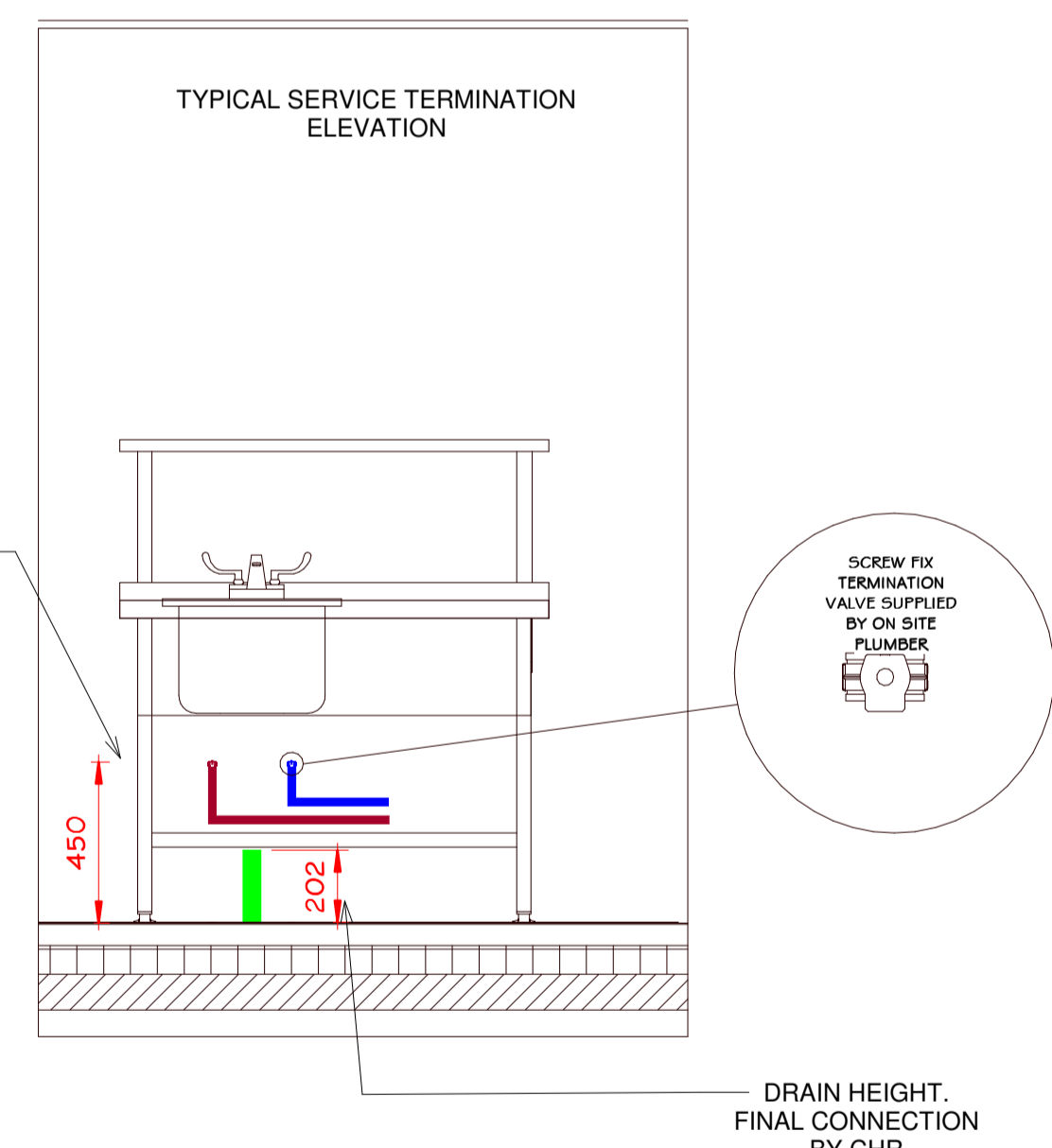


**1 MECHANICAL 1**  
1 : 20



**2 MECHANICAL 2**  
1 : 20

**005 - CHR Mechanical**  
**3 Layout**  
1 : 100

**WATER SERVICE NOTES:**

- Hot Water Service Notes:**
- Suffix 's' denotes supply softened to 8° Clark or less.
  - Where no Class 'A' air break is available on appliance, a separate tank supply is to be provided by others to meet water board regulations.
  - Hot water temperature assumed to be at 50-60°C. Separate treated tank supply to be provided by others to meet water board regulations.
  - A minimum flow pressure of 2.0 bar is required for all hot water connections.
  - A maximum flow pressure of 5.0 bar is required for all hot water connections.
  - All hot water connections are fitted with none return valves.
- Cold Water Service Notes:**
- Suffix 's' denotes supply softened to 8° Clark or less.
  - Where no Class 'A' air break is available on appliance, a separate tank supply is to be provided by others to meet water board regulations.
  - A minimum flow pressure of 2.0 bar is required for all cold water connections.
  - A maximum flow pressure of 5.0 bar is required for all cold water connections.
  - All cold water connections are fitted with none return valves as standard - fitted by CHR.

**CHR WASTE NOTES:**

- Waste Service Notes:**
- Drainage from waste disposal units to run at a min fall of 1:15 and must not be run via other equipment or a grease trap.
  - Waste Discharge from combination ovens is in excess of 100°C.
  - Where waste outlet on equipment is too low to allow installation of a trap, the waste is to be trapped at high level below slab.
  - Waste disposal units must have an independent waste connection.
  - Combination Oven waste connections must be copper as standard.
- General Service Notes:**
- All service requirements to be multiplied by the number of points shown.
  - Services to client items to be ADVISED BY CLIENT.
  - All areas containing refrigerators and/or deepfreezers must be adequately ventilated to allow sufficient airflow around compressors. Max ambient 32degree °C.
  - Service supplies should be brought to each and every point shown on service drawing. Terminated (with either an isolation valve for water or gas, a rotary isolator for electrical supplies or a stack for drains) final connection to equipment by CHR engineers.
  - Dimensions given for pipework sizes etc. are those of the connection point on the equipment and not the size of the incoming supply which may vary.

**CHR ELECTRICAL NOTES:**

- Electrical Service Notes:**
- Electrical information is based on:  
1 Phase A.C. - 220/240 Volt 50 Cycles  
3 Phase A.C. - 415/440 Volts 50 Cycles  
Three phase supplies should be complete with a neutral wire & earth.  
Leave minimum 2000mm tails to all outlets.
  - Earthing points to be provided adjacent to all items. Earth bonding by others.
  - RCD protection to be provided to all sockets in wet areas.
  - All ventilation canopies shall require a conduit mounted above the canopy and wired back to its main lighting circuit, which will be done by the electrical contractor.
  - Gas solenoid/ventilation interlock - Site electrician is to provide a solenoid valve & a air pressure switch on the ductwork. To be wired back to the ventilation control panel by onsite electrician.
  - Earth bonding deemed to be provided by others.

Rev	Description	Date
A	Drawing predated to Revit m22, updated to latest comments	10.03.23
B	Equipment shown in green from light equipment budget	19.05.23

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SCALE: A1    DATE:    DRAWN BY:    CHECKED BY:   

Client: Owner    Approved By: Approver

Project: LSHTM Social Space K53D

Description: CHR MECHANICAL LAYOUT

Drawing Number: 15946/005    Revision: B

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Proposal     For comment     For approval     For information     Construction     As built