

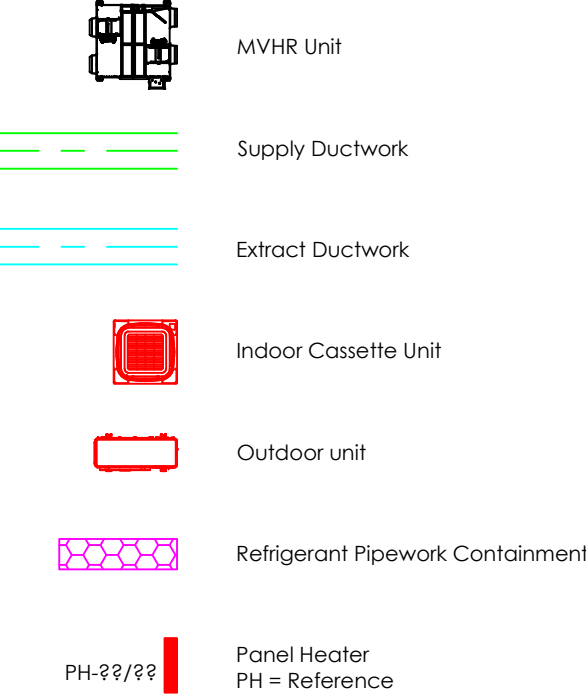
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all dimensions to be checked on site and architect notified of any discrepancies prior to commencement. **DO NOT SCALE** ©

notes:

- This drawing is for Tender Purposes only.
- Final selections of all plant/equipment to be confirmed by the Contractor
- Setting out to be undertaken by the Contractor as part of the Detailed Design.
- All services sizes and quantities identified in the attached drawing shall be confirmed by the Contractor
- Access panels will be provided in accordance with DW/144 and DW/172.
- Louvre connections will be provided in accordance with DW/144.
- Ductwork classification and air leakage limits shall be low pressure class A.
- The mechanical contractor shall run services such that they can be supported from:
 - internal walls and partitions
 - intermediate structural channels as shown on the structural drawings and as installed by the main contractor (location of which to be advised by the mechanical contractor)
 - additional support channels installed by the mechanical contractor
- Volume control dampers (VCDs) will be provided on all branch ductwork.
- All duct / cable / pipe / tray penetrations shall be fire stopped in line with the recommendations of the Fire Engineers report.
- Services requiring access for maintenance or commissioning purpose will have adequate access.
- All external louvres provided for ventilation purposes are to be provided with bird mesh no coarser than 12mm.
- All VCDs are to be accessible.
- VCDs are to be multi-blade c/w external control handles.
- All penetrations through walls to be filled to suit the requirements of the acoustic & fire strategies as detailed by the architect.
- Ductwork shall be thermally insulated in line with TMSA guides. AD: L and HVAC manufacturer's recommendations.
- Ductwork to be supported in line with BS5970 and insulated in line with BS5422.
- Acoustic connectors to be used where required.
- It is recommended that you engage with your local Toshiba branch for advice or contact Michelle Smalman - E: michelle.smalman@carrier.com M: 07814 775327.
- The air conditioning system(s) shall be designed to, and equipment selected to conform to, the following design criteria:-
 - Internal Conditions
 - Summer - 23°C db (+/- 2.0°C).
 - Winter - 18°C db (+/- 2.0°C).
 - External Conditions
 - Summer - 31°C db, 21.5°C wb
 - Winter - -6°C db
- Refrigerant pipework and associated controls cabling shall be routed on tray that shall be sized and confirmed by specialist refrigeration contractor.
- Refrigerant pipework shall be insulated as defined by specialist refrigeration contractor.
- Refrigerant pipework and routes shall be sized and confirmed by specialist refrigeration contractor.

Legend:



T1 26.02.24 Tender Issue GN RC
P1 12.02.24 First Issue - For Comment GN RC
rev: date: comment(s): name: check:



exi ref: MEPN6552

client: gopuff

job: Rangemoor

title: Proposed HVAC Layout

drawn: GN date: Feb '24

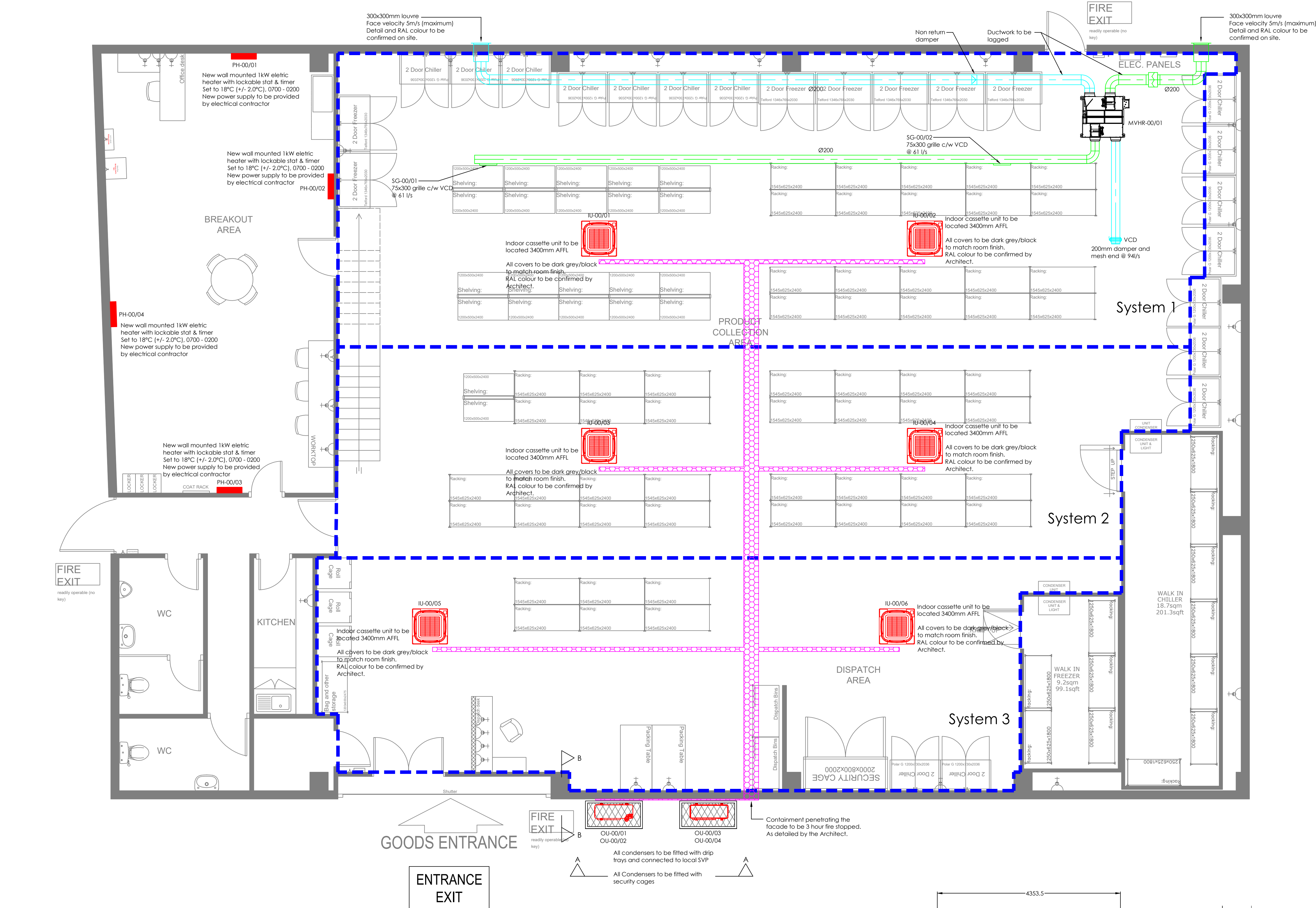
checked: RC scale (A1): 1:50

suitability: Concept purpose:

drg no: 6552-EXI-ZZ-00-DR-M-570000 T1

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PANEL HEATER								
Ref	Room	Type	Heating Load	Heating Output	Height	Length	Depth	Colour
PH-00/01	Breakout	Dimplex PLXE Panel Heater	4.0kW	1.0kW	470mm	660mm	108mm	White
PH-00/02	Breakout	Dimplex PLXE Panel Heater	4.0kW	1.0kW	470mm	660mm	108mm	White
PH-00/03	Breakout	Dimplex PLXE Panel Heater	4.0kW	1.0kW	470mm	660mm	108mm	White
PH-00/04	Breakout	Dimplex PLXE Panel Heater	4.0kW	1.0kW	470mm	660mm	108mm	White

System 1 - IU-00/01	
Manufacturer:	Toshiba
Model:	RAV-HM801UTP-E (3hp - 8.0kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

System 1 - IU-00/02	
Manufacturer:	Toshiba
Model:	RAV-HM801UTP-E (3hp - 8.0kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

System 2 & 3 - IU-00/03	
Manufacturer:	Toshiba
Model:	RAV-HM561UTP-E (2hp - 5.6kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

System 2 & 3 - IU-00/04	
Manufacturer:	Toshiba
Model:	RAV-HM561UTP-E (2hp - 5.6kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

System 2 & 3 - IU-00/05	
Manufacturer:	Toshiba
Model:	RAV-HM561UTP-E (2hp - 5.6kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

System 2 & 3 - IU-00/06	
Manufacturer:	Toshiba
Model:	RAV-HM561UTP-E (2hp - 5.6kW)
Dims:	840mm (W) x 256mm (D) x 840mm(H)

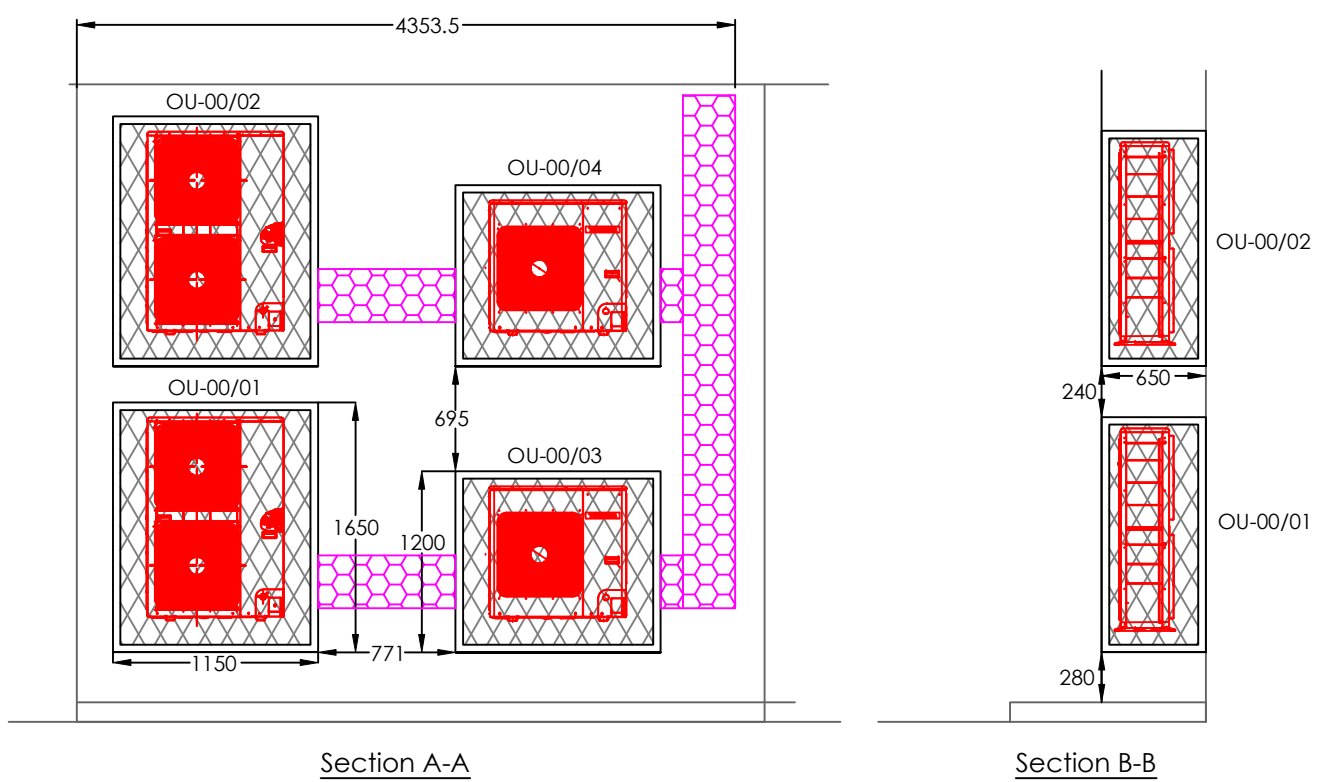
MVHR-00/01	
Manufacturer:	Toshiba
Model:	VN-M300HE (500m³/hr)
Dims:	900mm (W) x 900mm (H) x 290mm (D)

System 1 - OU-00/01	
Manufacturer:	Toshiba
Model:	RAV-GM1601ATP-E (6hp - 16.0kW)
Dims:	900 (W) x 320mm (D) x 1340mm (H)

System 1 - OU-00/02	
Manufacturer:	Toshiba
Model:	RAV-GM1601ATP-E (6hp - 16.0kW)
Dims:	900 (W) x 320mm (D) x 1340mm (H)

System 2 & 3 - OU-00/03	
Manufacturer:	Toshiba
Model:	RAV-GM1101ATP-E (4hp - 11.2kW)
Dims:	900 (W) x 320mm (D) x 890mm (H)

System 2 & 3 - OU-00/04	
Manufacturer:	Toshiba
Model:	RAV-GM1101ATP-E (4hp - 11.2kW)
Dims:	900 (W) x 320mm (D) x 890mm (H)



NOTE: All plant/equipment selections are equal or approved