

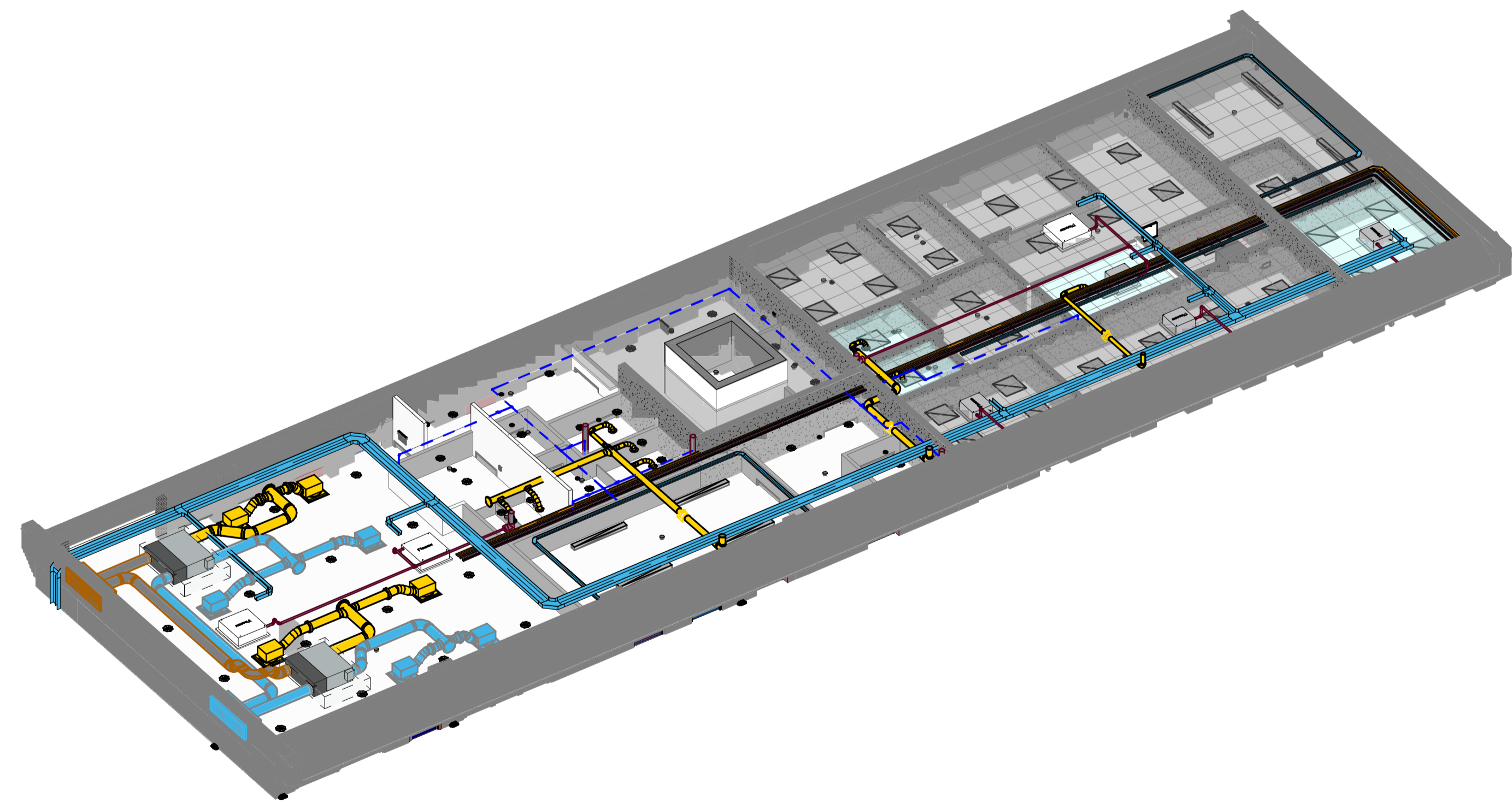
- Notes:**
- The contractor shall examine the drawings and visit site before the works commence to ascertain all local conditions/restrictions likely to affect the execution of the works. No claims arising from failure to do so will be considered.
  - This drawing is to be read in conjunction with all accompanying M&E services drawings, specifications and schedules. Do not scale from this drawing.
  - Dimensions are in millimetres unless stated otherwise.
  - This drawing represents the design intent & strategy. It is neither an installation nor a co-ordination drawing.
  - All ductwork, heat recovery units and fans shall be securely fixed to the building structure with the use of a proprietary bracketing system.
  - Volume control dampers shall be provided to ductwork branches as indicated.
  - All ductwork shall be galvanised mild steel and all legs shall be insulated in 25mm duct wrap.
  - All ventilation systems shall be fully commissioned upon completion.
  - Access doors shall be installed adjacent to every fire damper and serviceable component.
  - Fire stopping shall be provided where services penetrate through new and existing firewalls. The contractor shall refer to the fire strategy drawings and documents.
  - The contractor shall co-ordinate with the building fabric/structure and other trades.
  - All ductwork shall be designed, manufactured in accordance with BESA (Building & Engineering Services Association.) Ductwork specification DW144.
  - Fire dampers and smoke dampers shall be installed in all fire wall to suit the level of fire compartmentation requirements in line with the fire strategy drawings and documents. Access panels shall be installed in accordance with the damper manufacturer requirements for access and maintenance.
  - All grilles and diffusers shall be installed in CW VCD's and plenum box.
  - All grilles and diffusers shall be independently supported where necessary.
  - All M&E units shall be installed with adequate maintenance access.
  - All positions of ceiling mounted equipment shall be co-ordinated to suit the architect's ceiling layout & M&E services.

- Legend:**
- VCD Volume Control Damper
  - FD Fire Damper
  - EG-- Extract Grille
  - SG-- Supply Grille
  - EV-- Extract Valve
  - EF-- Extract Fan
  - HRU-- Heat Recovery Unit
  - Supply Ductwork
  - Return Ductwork
  - Fresh Air Inlet Ductwork
  - Exhaust Ductwork
  - Natural Ventilation

| Revisions | Number               | Description | Date |
|-----------|----------------------|-------------|------|
| P03       | Revised for Planning | 07.11.23    |      |
| P02       | RIBA 3 Issue         | 03.05.23    |      |
| P01       | RIBA 3 WIP Issue     | 20.04.23    |      |

### B3 01 - First Floor Ventilation

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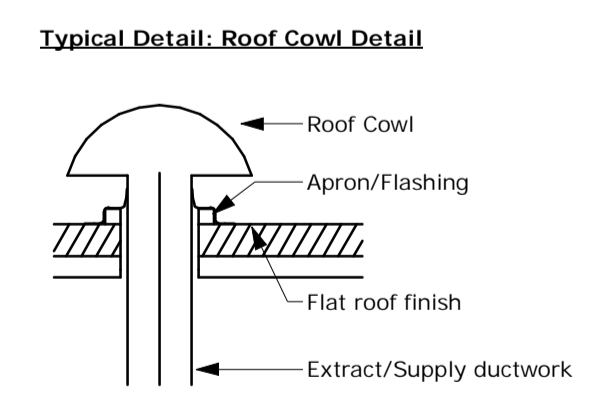
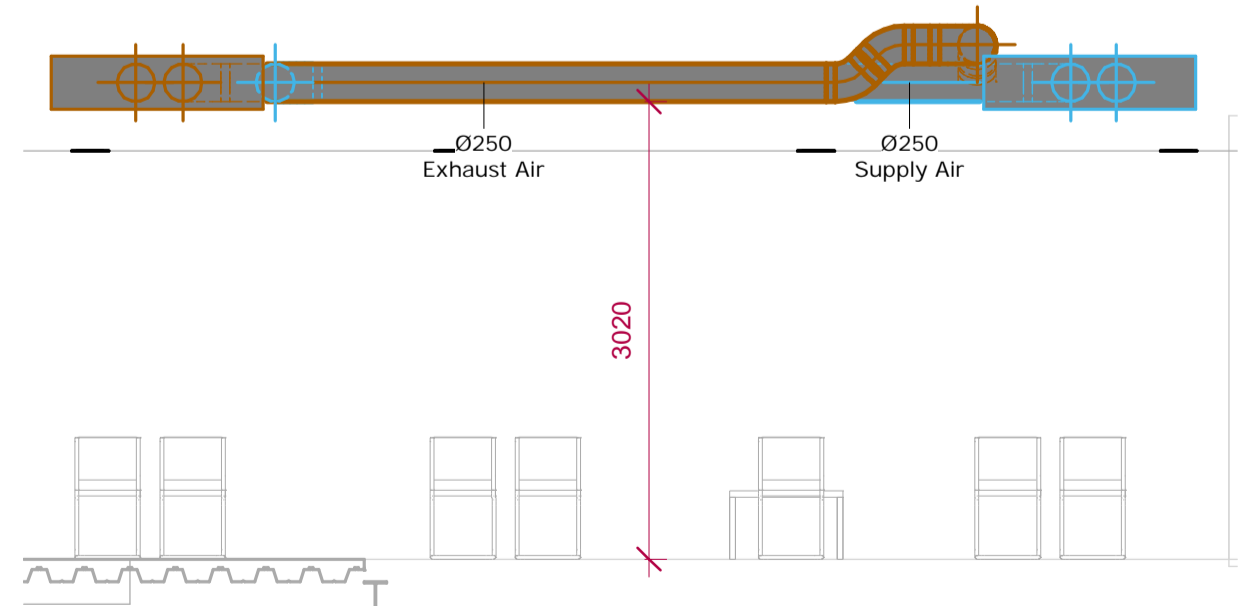


| Heat Recovery Unit Schedule - B3 |                                 |             |                        |                         |                               |             |                        |
|----------------------------------|---------------------------------|-------------|------------------------|-------------------------|-------------------------------|-------------|------------------------|
| Ref                              | Manufacturer                    | Model       | Supply Flow Rate [l/s] | Extract Flow Rate [l/s] | External Static Pressure [Pa] | Weight [kg] | Dimensions [mm][WxHxD] |
| HRU01                            | Mitsubishi Electric Corporation | LGH100RVX-E | 200                    | 200                     | 96                            | 54          | 1144x1231x404          |

| Air Terminal Schedule - B3 |              |                                |           |               |
|----------------------------|--------------|--------------------------------|-----------|---------------|
| Ref                        | Manufacturer | Model                          | Flow      | Pressure Drop |
| EG02                       | Systemair    | TSF-F-250-600-(.)+THOR-200-250 | 100.0 L/s | 27.5 Pa       |
| EV01                       | Systemair    | EFF-100-SW                     | 15.0 L/s  | 20.0 Pa       |
| SG02                       | Systemair    | TSO-F-250-600-(.)+THOR-200-250 | 100.0 L/s | 20.0 Pa       |

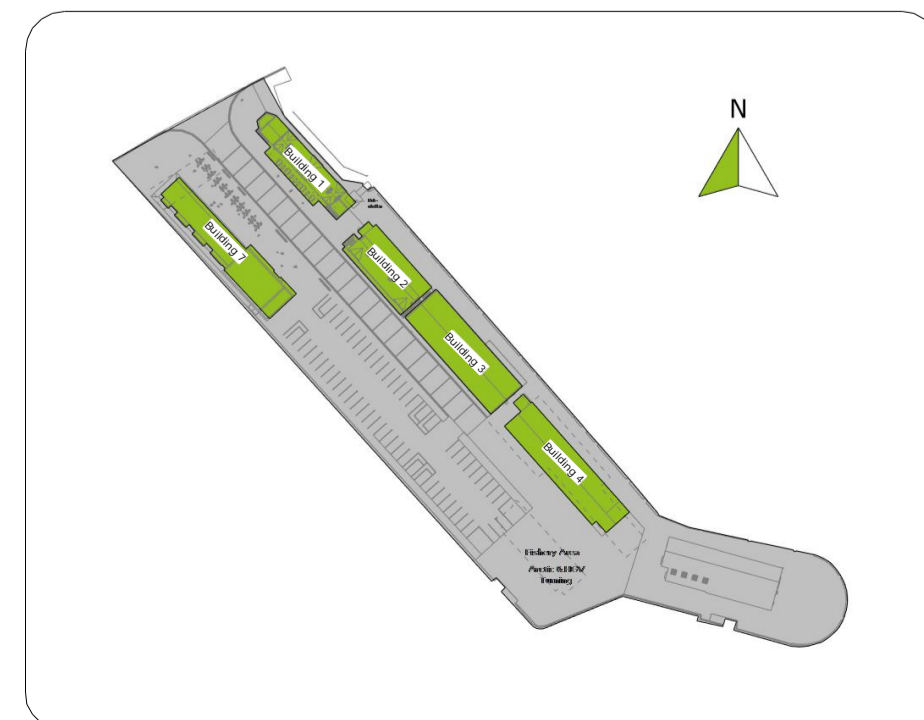
| Ventilation - Louvre Schedule B3 |              |             |
|----------------------------------|--------------|-------------|
| Ref                              | Manufacturer | Model       |
| WL200                            | Systemair    | WGF 200x200 |
| WL350                            | Systemair    | WGF 350x350 |

| Extract Fan Schedule - B3 |               |              |                |                 |
|---------------------------|---------------|--------------|----------------|-----------------|
| Ref                       | Room          | Manufacturer | Model          | Flow Rate [l/s] |
| EF01                      | Staff WC      | Vent Axia    | ACM 150        | 30              |
| EF01                      | Corridor      | Vent Axia    | ACM 150        | 45              |
| EF02                      | Showers / AWC | Vent Axia    | Silhouette 150 | 15              |
| EF02                      | Office        | Vent Axia    | ACM 100        | 15              |



### B3 - Ventilation Detail

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| RIBA Stage                         | Status |
|------------------------------------|--------|
| 2 - Concept Design                 |        |
| 3 - Spatial Coordination           |        |
| 4 - Technical Design               | ✓      |
| 5 - Manufacturing and Construction |        |



Status: S3 - Review & Comment



Project: Scarborough - West Pier

Drawing Title: B3 - First Floor Ventilation

Drawing Number: 22113-RCE-VEN-01-DR-M-B3-01

| Rev. | Designed | Checked | Scale            |
|------|----------|---------|------------------|
| P03  | JO       | LB      | As Indicated @A1 |

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