



## LEVEL 05

[illegible][illegible]

Refrigeration powerpack only (rise or powerpack may cause existing lift shaft steel doors (instead of structural of conservation effect))

Existing Sprinkler Main

Supply ductwork to both (rise above existing lift shaft steel doors (instead of structural of conservation effect))

RA

300

630/300

631/19

VCD

2/50

450x250 Return air ductwork only (rise above new access door on floor FD, VCD and lift shaft with sprinkler. Due to be as close under existing sprinkler main)

**LEVEL 06**

**Busbar Data:**

| Bus   | 11kV      | 4.16kV      | 480V      |
|-------|-----------|-------------|-----------|
| VCD1  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD2  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD3  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD4  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD5  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD6  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD7  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD8  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD9  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD10 | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| VCD11 | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |

**Feeder Data:**

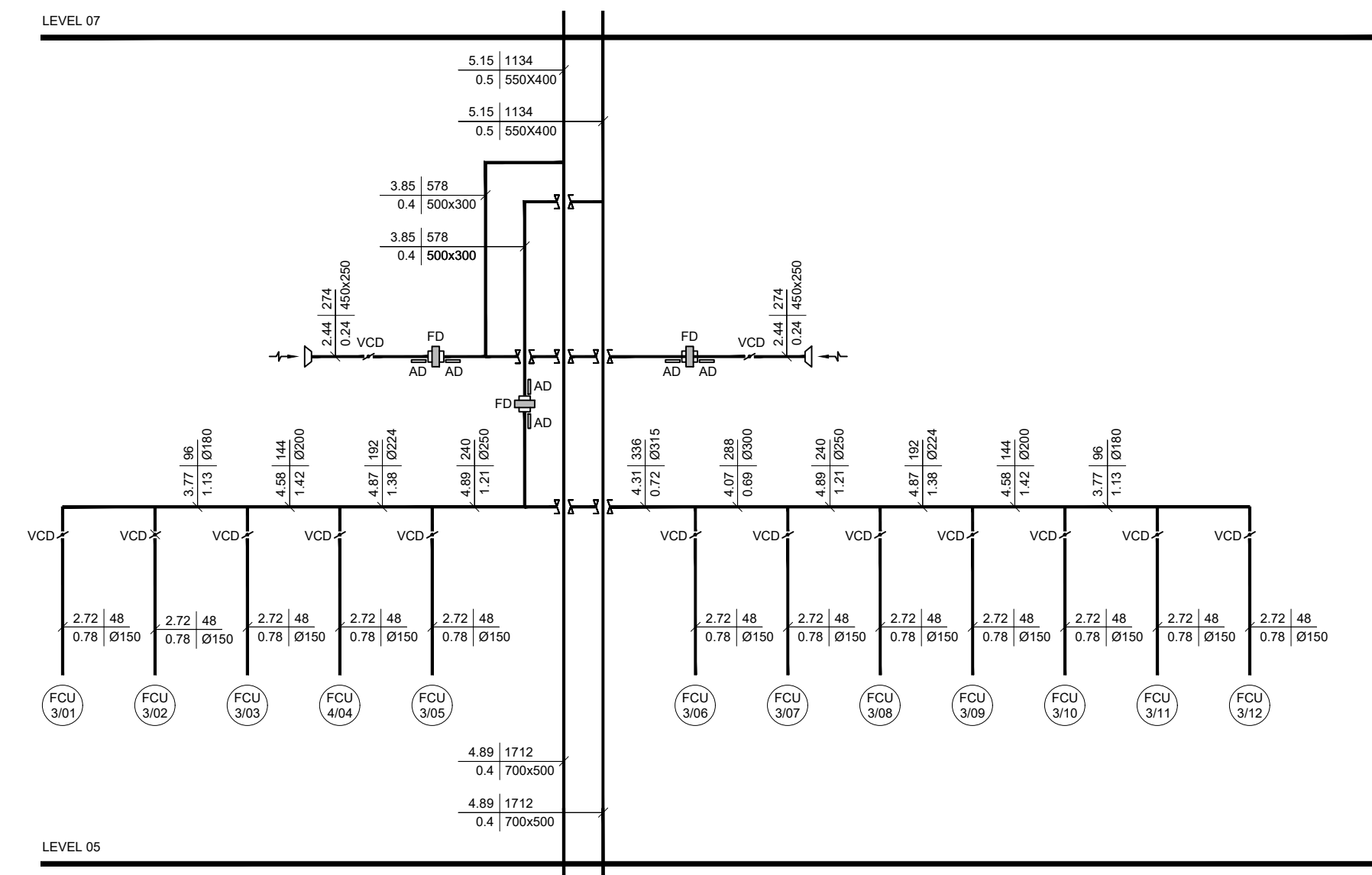
| Feeder | 11kV      | 4.16kV      | 480V      |
|--------|-----------|-------------|-----------|
| FCD1   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD2   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD3   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD4   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD5   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD6   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD7   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD8   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD9   | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD10  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |
| FCD11  | 3.12 / 54 | 3.39 / 0186 | 3.12 / 54 |

**Level 06 Details:**

- Busbar Configuration:** The diagram shows a complex arrangement of busbars with multiple feeders connected to them. The busbars are labeled VCD1 through VCD11.
- Feeder Connections:** Each feeder (FCD1-FCD11) is connected to a specific busbar. The feeders are shown with their respective bus and feeder data.
- Breakers and Fuses:** The diagram includes symbols for circuit breakers and fuses, indicating the protection devices for each feeder and busbar.
- Labels and Annotations:** Various labels are present throughout the diagram, including busbar numbers, feeder numbers, and specific annotations for each component.

| Level 06      |          |                  |                   |                            |                            |                            |  |                    |                        |
|---------------|----------|------------------|-------------------|----------------------------|----------------------------|----------------------------|--|--------------------|------------------------|
| FCU Reference | Level    | Indoor Unit Type | Indoor Unit Model | Unit Capacity Cooling (kW) | Unit Capacity Heating (kW) | Electrical Supply (V / Hz) |  | Outdoor Unit Model | Outdoor Unit Reference |
| FCU 6/01      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/02      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/03      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/04      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/05      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/06      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  | PURY-P600V/NWA     | VRF 6/01               |
| FCU 6/07      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/08      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/09      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/10      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |
| FCU 6/11      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                       | 8.00                       | 230 50                     |  |                    |                        |

| Level 06      |          |                  |                   |                                  |                                  |                                  |     |                    |                           |
|---------------|----------|------------------|-------------------|----------------------------------|----------------------------------|----------------------------------|-----|--------------------|---------------------------|
| FCU Reference | Level    | Indoor Unit Type | Indoor Unit Model | Unit Capacity<br>Cooling<br>(kW) | Unit Capacity<br>Heating<br>(kW) | Electrical<br>Supply<br>(V / Hz) | (A) | Outdoor Unit Model | Outdoor Unit<br>Reference |
| FCU 6/01      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/02      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/03      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/04      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/05      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/06      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  | PURY-P600V/NWA     | VRF 6/01                  |
| FCU 6/07      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/08      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/09      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/10      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |
| FCU 6/11      | Level 06 | Ducted           | PEFY-P63V/MA-E    | 7.10                             | 8.00                             | 230                              | 50  |                    |                           |



|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------|
| B                                                                                                                                                                                                                                         | Base sharing updated and scheme updated as comments from clients Audison |      | 25/05/20                                                                                                                                   |          | For Approval                                                        |
|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
| A                                                                                                                                                                                                                                         | For Approval                                                             |      | 25/05/20                                                                                                                                   |          | For Approval                                                        |
|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
| Revision                                                                                                                                                                                                                                  | Revision description                                                     | Date | Drawn                                                                                                                                      | 25/05/20 | For Approval<br>Day Status<br>Drawn By<br>Checked By<br>Approved By |
|                                                                                                                                                                                                                                           | Client                                                                   |      |                                                                                                                                            |          |                                                                     |
|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
|                                                                                                                                                                                                                                           |                                                                          |      |                                                                                                                                            |          |                                                                     |
|                                                                                                                                                                                                                                           | Project                                                                  |      |                                                                                                                                            |          |                                                                     |
| <p style="text-align: center;"><b>40-46 Princess Street<br/>Manchester</b></p>                                                                                                                                                            |                                                                          |      |                                                                                                                                            |          |                                                                     |
| <p style="text-align: center;"><b>Title</b></p> <p style="text-align: center;"><b>Proposed Ventilation and Comfort Cooling<br/>Levels 05 and 06</b></p>                                                                                   |                                                                          |      |                                                                                                                                            |          |                                                                     |
| <p>Drawn by: <b>P.S.</b></p> <p>Checked by: <b>A.Mck.</b></p> <p>Approved by: _____</p> <p>Scale: <b>1:75</b></p> <p>Sheet Size: <b>A0</b></p> <p>Issue Date: <b>25.09.20</b></p> <p>Drawing No: <b>M05</b></p> <p>Revision: <b>B</b></p> |                                                                          |      |                                                                                                                                            |          |                                                                     |
|                                                                                                                                                                                                                                           |                                                                          |      |  <p style="text-align: center;"><b>CubicWorks</b></p> |          |                                                                     |
|                                                                                                                                                                                                                                           |                                                                          |      | <p style="text-align: center;">Trafford House, Chester Road,<br/>Manchester, M32 0PS.</p>                                                  |          |                                                                     |
| <p>The contractor is to check all dimensions and conditions on site before commencing the work and to liaise with the client and the architect.</p>                                                                                       |                                                                          |      |                                                                                                                                            |          |                                                                     |