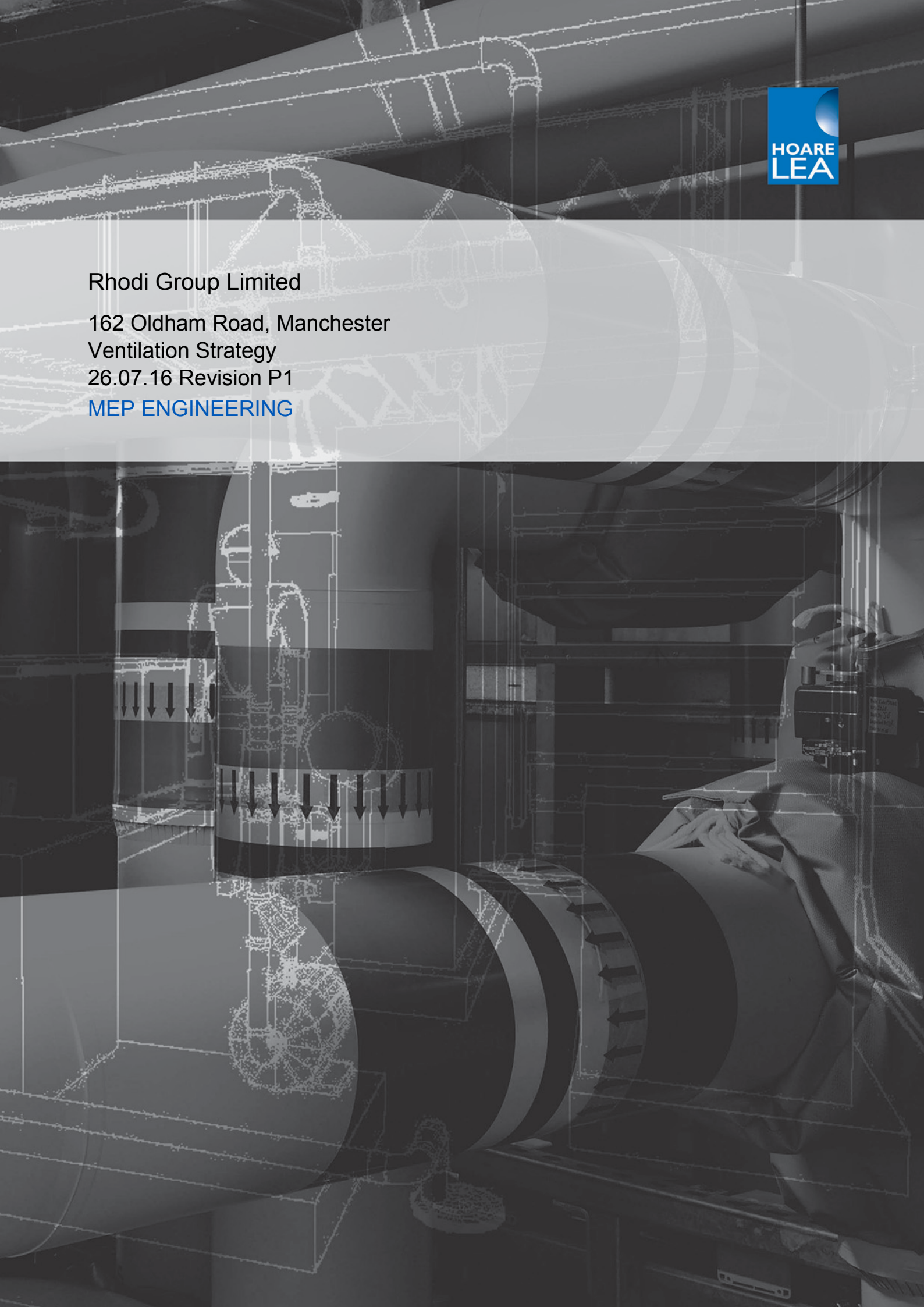


Rhodi Group Limited

162 Oldham Road, Manchester
Ventilation Strategy
26.07.16 Revision P1
MEP ENGINEERING

## Audit sheet

| Rev. | Date | Description | Prepared | Verified |
|---|---|---|---|---|
| P1 | 26.07.16 | Preliminary Issue for Planning | JB | MPL |
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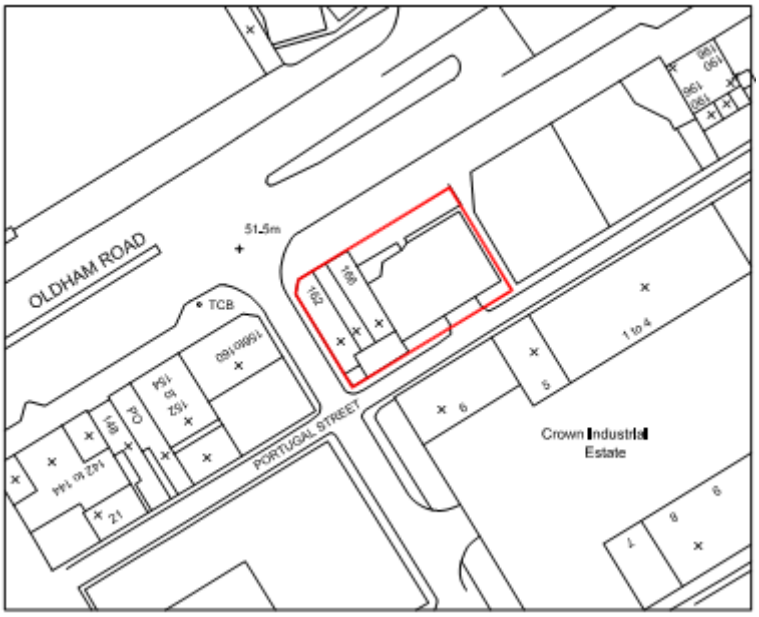
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## 1. Introduction

The following statement gives a brief introduction to the ventilation strategy for the proposed development at 162 Oldham road, including air intake and discharge locations.

The building is located between Oldham Road and Portugal Street, as shown below, and consists of 30 No. Apartments, a ground floor car park and a single Retail Unit.




The scope for the new building includes:

- Supply and extract to meet the fresh air requirements of the residential apartments.
- Domestic cooker extract from each apartment.
- Provision to accommodate the future fit-out installation to meet the ventilation requirements of the flexible retail space.
- Car Park Ventilation.

# 2. Ventilation Strategy

## 2.1 Residential Apartments

Background ventilation will be provided via a Mechanical Ventilation and Heat Recovery (MVHR) unit in each apartment, including filters, with fresh air intake and exhaust air via the soffit on the external facade. Air will be extracted from kitchens and bathrooms which will be balanced by the supply to living rooms and bedrooms.

In addition Kitchens will have dedicated extract hoods with exhaust air discharged directly to outside. This approach is necessary to limit risk of odours and condensation.

Trickle ventilators are not proposed in the apartment windows as the MVHR system will be providing background ventilation.

## 2.2 Ground Floor Car Park

The ground floor car park will be ventilated for fume and smoke control via a mechanical extract system utilising either jet fans or a traditional extract fan installed at high level in the space. Make up air will be drawn into the car park through secure, natural ventilation openings on the Oldham Road façade.

The fans will be mounted at high level and operate to dilute the air based on carbon monoxide monitoring within the space. The extract fans will be installed and directed away from any residential windows.

The installation is to be in accordance with current Approved Documents Parts B & F, and the smoke extract installation will comply with BS 7346-7:2013.

## 2.3 Ground Floor Retail – Shell & Core

The tenant will provide the ventilation to meet their own specific requirements. To maximise the flexibility high level louvres will be provided on both Oldham Road and Pollard Street, above the glazing, to allow them to connect small heat recovery units or small extracts.

Louvres located on both facades with provide separation to eliminate the risk of re-circulation.

Due to the size of the unit it is not anticipated that grease extract would be required as the space is more suited to kiosk style unit like a coffee shop.

## 2.4 Refuse Store

The bin store rooms located in ground level will be provided with a local extract fan which will be attenuated and discharge at high level on the ground floor to Portugal Street. The bin store is also naturally ventilated via external louvred doors which will reduce the risk of any odours.

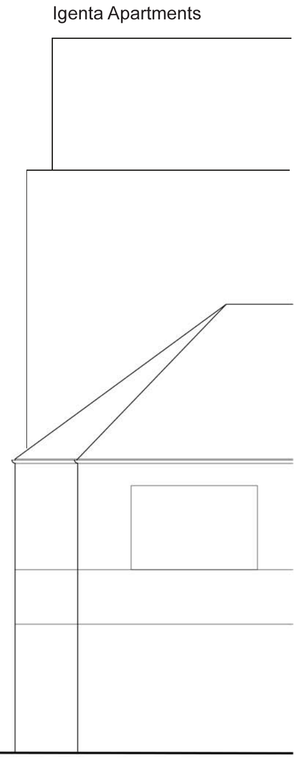
## 2.5 Cycle Store

The cycle store room will be provided with a local extract fan which will be attenuated and discharged at high level on the ground level in a similar location to the bin store.

# Appendix 1 - Elevations




NORTH WEST ELEVATION







SOUTH WEST ELEVATION

| REV | DATE | DESCRIPTION | DRAWN |
|---|---|---|---|

CLIENT
I.V. Holdings

PROJECT
162-166 Oldham Road
Manchester

DRAWING TITLE
N.W. & S.W. ELEVATIONS

STATUS
FOR PLANNING

| PROJECT No | DWG TYPE | DWG No | REV |
|---|---|---|---|
| OLR | PL | 300 | |

| SCALE | DATE | DRAWN | CHECKED |
|---|---|---|---|
| 1:100 @ A1 | JUL'16 | CH | |

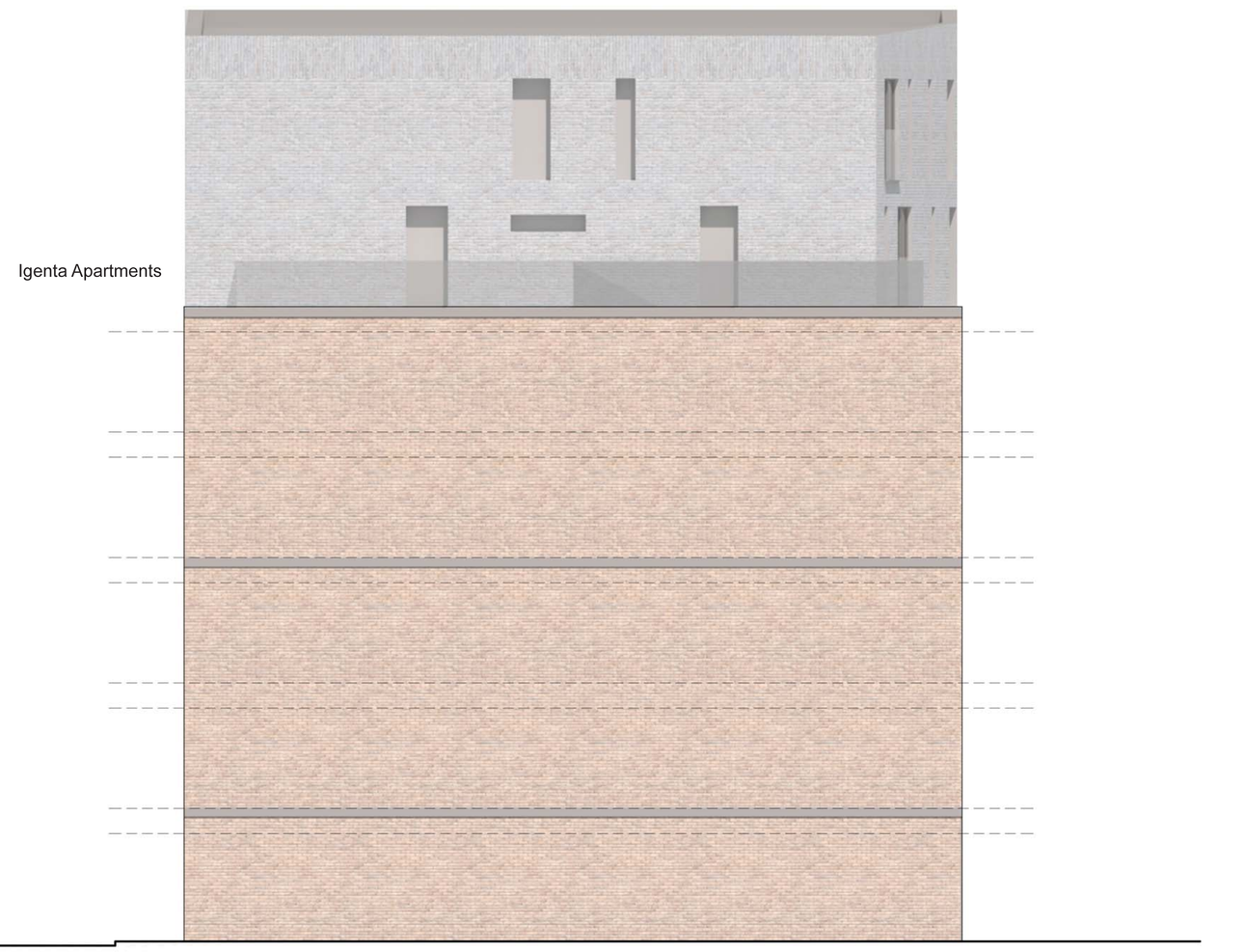
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SOUTH EAST ELEVATION




NORTH EAST ELEVATION

| REV | DATE | DESCRIPTION | DRAWN |
|---|---|---|---|

CLIENT
I.V. Holdings

PROJECT
162-166 Oldham Road
Manchester

DRAWING TITLE
N.E. & S.E. ELEVATIONS

STATUS
SKETCH

| PROJECT No | DWG TYPE | DWG No | REV |
|---|---|---|---|
| OLR | SK | 201/4 | 04 |

| SCALE | DATE | DRAWN | CHECKED |
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| 1:100 @ A1 | MAY'16 | CH | |

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