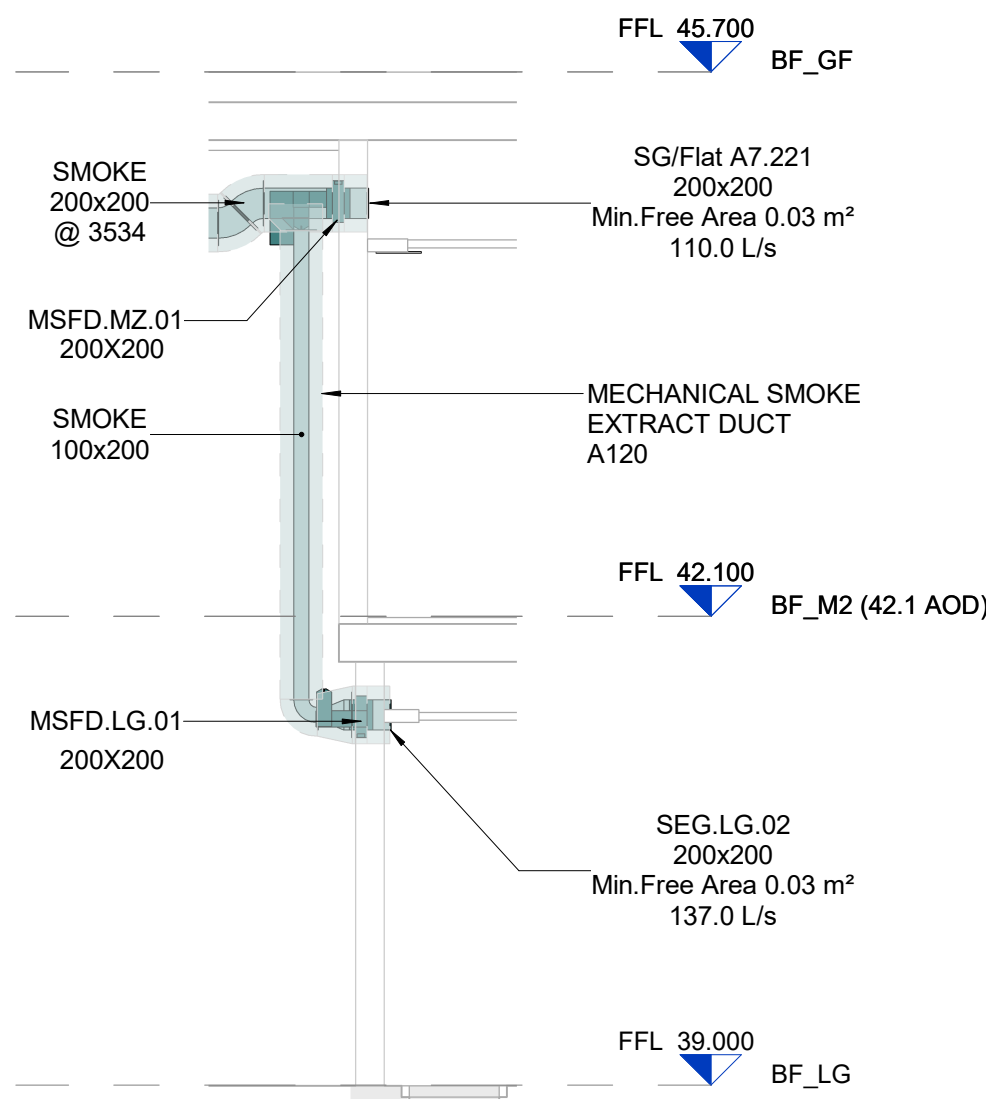




JRL
ARK
M&E

4 Elstree Way, Borehamwood, Hertfordshire,
WD6 1RN Tel: +44 208 953 7800

This drawing is to be read in conjunction with all relevant drawings, documents & specification.

Dimensions not to be scaled.

To be read in conjunction with ventilation schematics for sizing and flow rate.

To be read in conjunction with all relevant M&E drawings, specifications and reports.

Ducts passing through unheated spaces to be insulated to prevent condensation.

All ductwork passing fire/smoke protected zone to have fire damper.

	Exhaust Air - (EXH)
	Extract Air - (EXT)
	Return Air - (RET)
	Fresh Air - (FRH)
	Supply Air - (EXH)
	Smoke Extract - (SMOKE)

	Motorised Fire Smoke Damper
	Fire Damper (fusible link)
	Volume Control Damper
	Extract Fan
	Smoke Extract Fan

System Abbreviation
Duct Size [mm]
@ Middle Elevation from FFL [mm]

C03	27/10/2022	188	M.Z.	Comments Incorporated
C02	07/07/2022	136	O.S.	Ductwork Type Defined
C01	22/06/2022	131	M.Z.	CONSTRUCTION ISSUE
P02	06/05/2022	109	O.S.	Transfer Grille Position Updated
P01	04/05/2022	106	O.S.	Preliminary Issue
Rev.	Date	Sec.	BY	Description

Client: H Reading (phase 1) Limited

Project: Station Hill, Reading

drawing area:

LOCK F — BASEMENT
MEZZAINE

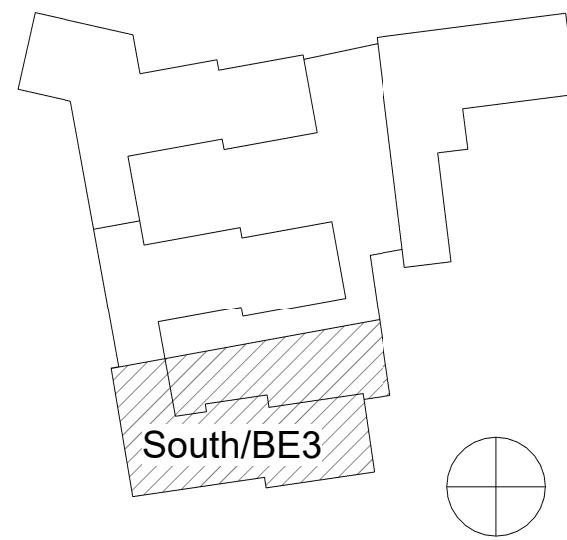
Drawing Title:
VENTILATION LAYOUT

Approved By: A. Sinclair	Date: 03/05/2022
Checked By: O. Soykuvvet	Scale: As indicated
Drawn By: M. Zalucki	Size: A1

FOR CONSTRUCTION

Drawing No.	Rev.
Project - Originator - Role - Volume - Type - Number	
SHR-ARK-BF-B1M-DR-M-57-0160	C03

Key Plan



Fire Rated Ductwork Construction Requirements

	Standard	Duration	Stability	Integrity	Fire Insulation
A120	BS EN 1366 pt.8	120 mins	Yes	Yes	90mm
B120	BS EN 1366 pt.1	120 mins	Yes	Yes	90mm
B60	BS EN 1366 pt.8	60 mins	Yes	Yes	60mm

Note: All fire insulation requires to be double thickness for cover strips over flange connections etc along length... ie 80, 120 or 180mm thick insulation.

LV.GF.03
1400x400
Min.Free Area 0.3 m²
678.0 L/s

EXH
600x400
@ 3295

FROM BELOW

EXH
500x300
@ 3295

ATT.GF.01

EXH
500x300
@ 2895

Standard Louvre
LV.GF.05
1000x700
Min.Free Area 0.2 m²

1 Floor Plan
1 : 100

AMENITY

To be developed by
AOV Specialist



NOTES:

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- To be read in conjunction with ventilation schematics for sizing and flow rate.
- To be read in conjunction with all relevant M&E drawings, specs and reports.
- Ducts passing through unheated spaces to be insulated to prevent condensation.
- All ductwork passing fire/smoke protected zone to have fire damper.

LEGEND

- Exhaust Air - (EXH)
- Extract Air - (EXT)
- Return Air - (RET)
- Fresh Air - (FRH)
- Supply Air - (EXH)
- Smoke Extract - (SMOKE)
- Flue Pipe - (FLUE)
- Motorised Fire Smoke Damper
- Fire Damper (fusible link)
- Volume Control Damper
- Extract Fan
- Smoke Extract Fan
- Fire Damper
- Motorized Smoke Fire Damper
- Extract Via Bellmouth
- Exhaust Louvre
- Smoke Extract Louvre
- Smoke Extract Via Bellmouth
- Attenuator

Ductwork Annotation



System Abbreviation
Duct Size [mm]
@ Middle Elevation from FFL [mm]

Rev	Date	Seq	BY	Description
C03	27/10/2022	188	M.Z.	Comments Incorporated
C02	07/07/2022	136	O.S.	Ductwork Type Defined
C01	20/06/2022	129	O.S.	CONSTRUCTION ISSUE
P02	30/05/2022	121	O.S.	Comments Incorporated
P01	04/05/2022	106	O.S.	Preliminary Issue

Client:
SH Reading (phase 1) Limited

Project:
Station Hill, Reading

Drawing area:
BLOCK E
CORE E3

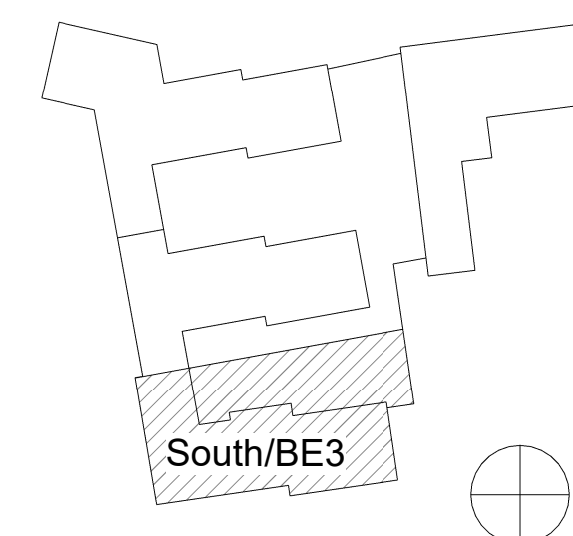
Drawing Title:
VENTILATION LAYOUT

Approved By: A. Sinclair Date: 03/05/2022
Checked By: O. Soykuvvet Scale: As indicated
Drawn By: M.Zalucki Scale: A1

Status:
FOR CONSTRUCTION

Drawing No.
Project - Originator - Volume - Type - Role - Number
SHR-ARK-BE3-GF-DR-M-57-0157

Rev.
C03



JRL
ARK
M&E

4 Elstree Way, Borehamwood, Hertfordshire,
WD6 1RN Tel: +44 208 953 7800

1. This drawing is to be read in conjunction with all relevant drawings, documents & specification.
2. Dimensions not to be scaled.
3. To be read in conjunction with ventilation schematics for sizing and flow rate.
4. To be read in conjunction with all relevant M&E drawings, spec.s and reports.
5. Ducts passing through unheated spaces to be insulated to prevent condensation.
6. All ductwork passing fire/smoke protected zone to have fire damper.

	Exhaust Air - (EXH)
	Extract Air - (EXT)
	Return Air - (RET)
	Fresh Air - (FRH)
	Supply Air - (EXH)
	Smoke Extract - (SMOKE)
	Flue Pipe - (FLUE)
	Motorised Fire Smoke Damper
	Fire Damper (fusible link)
	Volume Control Damper
	Extract Fan
	Smoke Extract Fan
	Fire Damper
	Motorised Smoke Fire Damper
	Extract Via Bellmouth
	Exhaust Louvre
	Smoke Extract Louvre
	Smoke Extract Via Bellmouth
	Attenuator

Ductwork Annotation

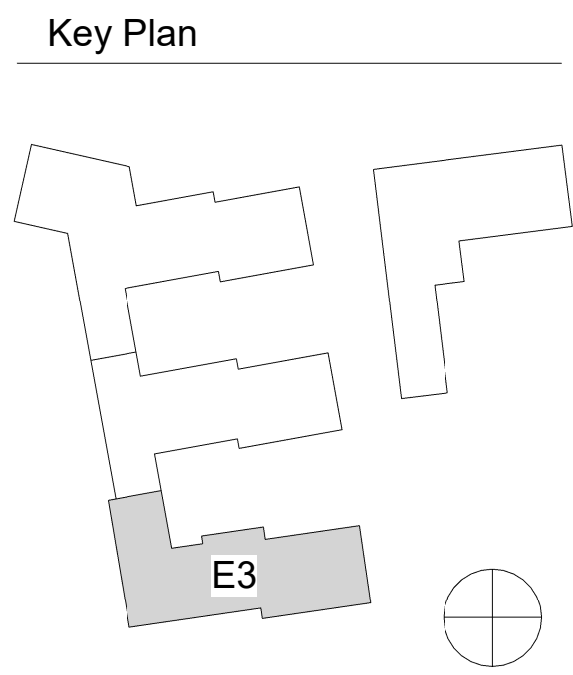
System Abbreviation
Duct Size [mm]

@ Middle Elevation from FFL [mm]

Drawing No.
Project - Originator - Volume - Type - Role - Number
SHR-ARK-BE3-R1M-DR-M-57-0156



1 Floor Plan
1 : 100



NOTES:

- This drawing is to be read in conjunction with all relevant drawings, documents & specification.
- Dimensions not to be scaled.
- To be read in conjunction with ventilation schematics for sizing and flow rate.
- To be read in conjunction with all relevant M&E drawings, spec.s and reports
- Ducts passing through unheated spaces to be insulated to prevent condensation.
- All ductwork passing fire/smoke protected zone to have fire damper.

LEGEND

- Exhaust Air - (EXH)
- Extract Air - (EXT)
- Return Air - (RET)
- Fresh Air - (FRH)
- Supply Air - (EXH)
- Smoke Extract - (SMOKE)
- Flue Pipe - (FLUE)
- Motorised Fire Smoke Damper
- Fire Damper (fusible link)
- Volume Control Damper
- Extract Fan
- Smoke Extract Fan
- Fire Damper
- Motorized Smoke Fire Damper
- Extract Via Bellmouth
- Exhaust Louvre
- Smoke Extract Louvre
- Smoke Extract Via Bellmouth
- Attenuator
- Ductwork Annotation
- System Abbreviation
- Duct Size [mm]
- @ Middle Elevation from FFL [mm]

C02	27/10/2022	188	M.Z.	Comments Incorporated
C01	20/06/2022	129	O.S.	CONSTRUCTION ISSUE
P02	30/05/2022	121	O.S.	Comments Incorporated
P01	04/05/2022	106	O.S.	Preliminary Issue

Rev.	Date	Seq.	BY	Description
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Client:
SH Reading (phase 1) Limited

Project:
Station Hill, Reading

Drawing area:
BLOCK E
CORE E3

LEVEL 01

Drawing Title:
VENTILATION LAYOUT

Approved By: A. Sinclair	Date: 03/05/2022
Checked By: O. Soykuvvet	Scale: As indicated
Drawn By: M.Zalucki	Scale: A1

Status:
FOR CONSTRUCTION

Drawing No.	Rev.
Project - Originator - Volume - Type - Role - Number SHR-ARK-BE3-01-DR-M-57-0158	C02

NOTES:

- This drawing is to be read in conjunction with all relevant drawings, documents & specification.
- Dimensions not to be scaled.
- To be read in conjunction with ventilation schematics for sizing and flow rate.
- To be read in conjunction with all relevant M&E drawings, spec.s and reports
- Ducts passing through unheated spaces to be insulated to prevent condensation.
- All ductwork passing fire/smoke protected zone to have fire damper.

LEGEND

	Exhaust Air - (EXH)
	Extract Air - (EXT)
	Return Air - (RET)
	Fresh Air - (FRH)
	Supply Air - (EXH)
	Smoke Extract - (SMOKE)
	Flue Pipe - (FLUE)
	Motorised Fire Smoke Damper
	Fire Damper (fusible link)
	Volume Control Damper
	Extract Fan
	Smoke Extract Fan
	Fire Damper
	Motorized Smoke Fire Damper
	Extract Via Bellmouth
	Exhaust Louvre
	Smoke Extract Louvre
	Smoke Extract Via Bellmouth
	Attenuator
Ductwork Annotation	
	System Abbreviation Duct Size [mm] @ Middle Elevation from FFL [mm]

C03	27/10/2022	188	M.Z.	Comments Incorporated
C02	07/07/2022	136	O.S.	Ductwork Type Defined
C01	20/06/2022	129	O.S.	CONSTRUCTION ISSUE
P02	30/05/2022	121	O.S.	Comments Incorporated
P01	04/05/2022	106	O.S.	Preliminary Issue

Rev.	Date	Seq.	BY	Description
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Client:
SH Reading (phase 1) Limited

Project:
Station Hill, Reading

Drawing area:
BLOCK E
CORE E2

Drawing Title:
VENTILATION LAYOUT

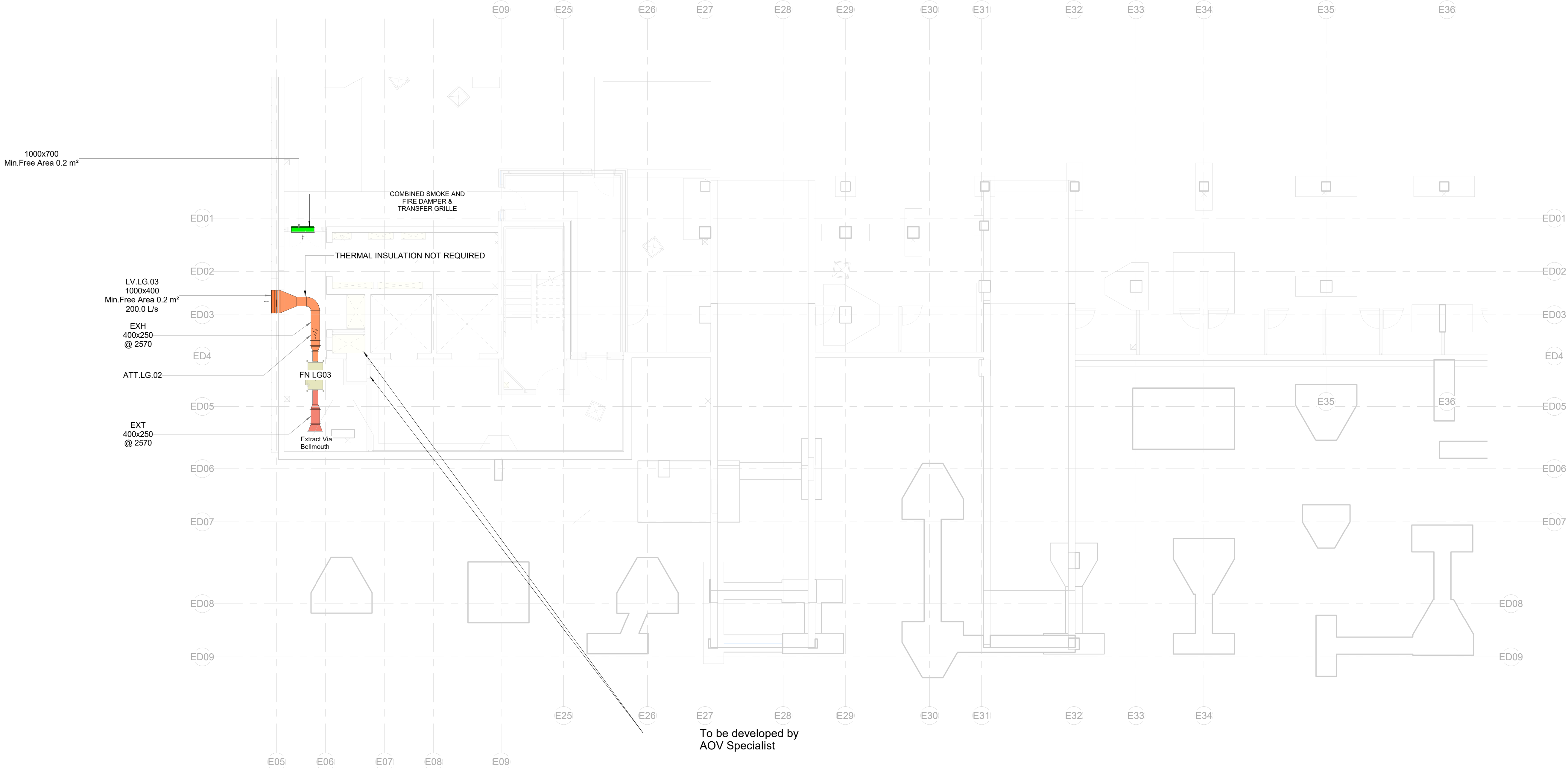
Approved By: A. Sinclair	Date: 03/05/2022
Checked By: O. Soykuvvet	Scale: As indicated
Drawn By: M.Zalucki	Scale: A1

Status:
FOR CONSTRUCTION

Drawing No.	Rev.
Project - Originator - Volume - Type - Role - Number SHR-ARK-BE2-LG-DR-M-57-0154	C03

Fire Rated Ductwork Construction Requirements					
	Standard	Duration	Stability	Integrity	Fire Insulation
A120	BS EN 1366 pt.8	120 mins	Yes	Yes	90mm
B120	BS EN 1366 pt.1	120 mins	Yes	Yes	90mm
B60	BS EN 1366 pt.8	60 mins	Yes	Yes	60mm

Note: All fire insulation requires to be double thickness for cover strips over flange connections etc along length... ie 80, 120 or 180mm thick insulation.



1 Floor Plan
1 : 100

Key Plan

