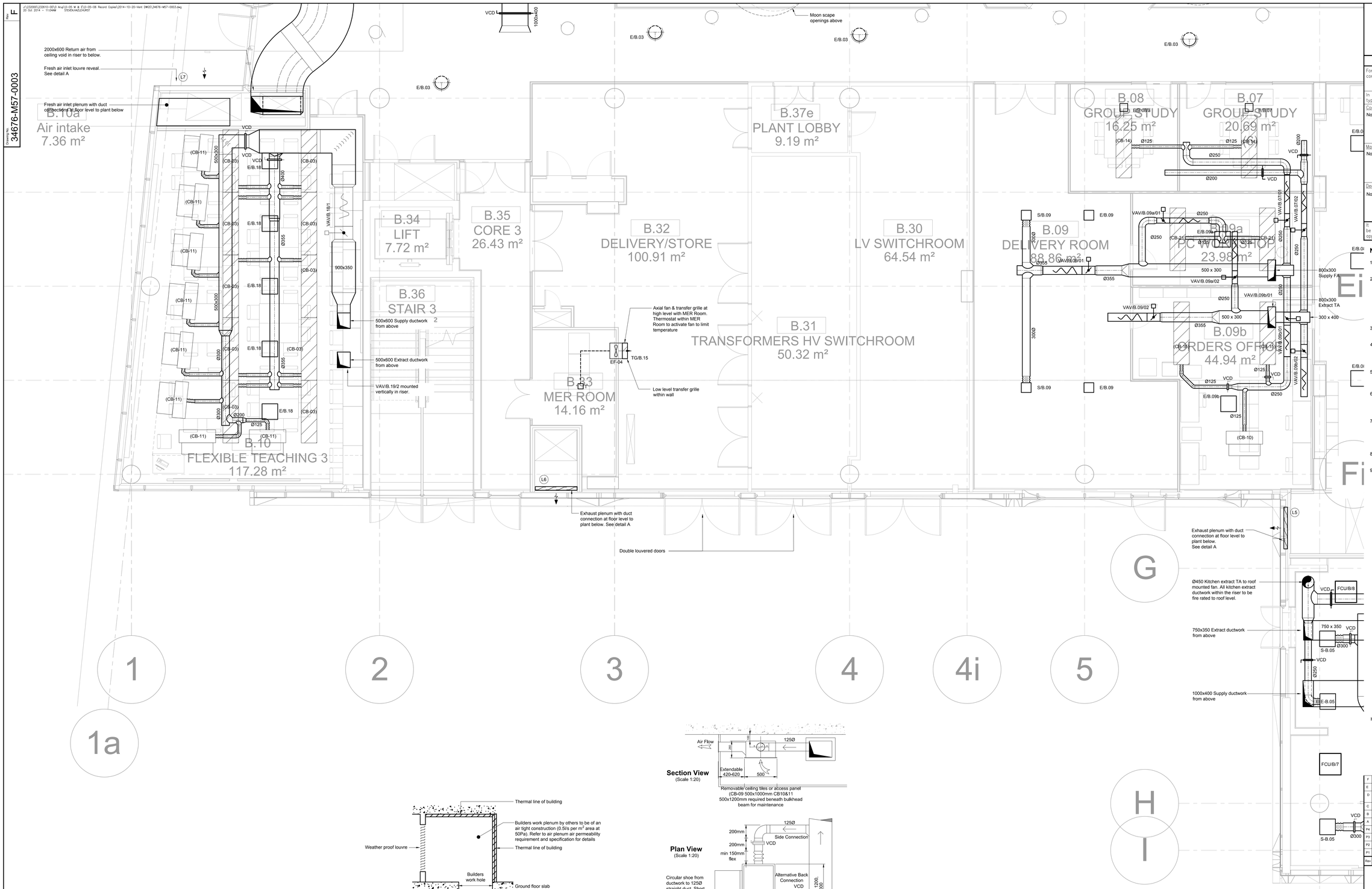
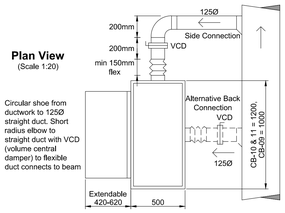
Rev F

Drawing No. 34676-M57-0003

J:\332000\339810-00\0 Arup\0-05 M & E\0-05-06 Record Copies\2014-10-20-Vent DWG\34676-M57-0003.dwg
20 Oct 2014 - 11:04AM STEVEN.HAZLEHURST

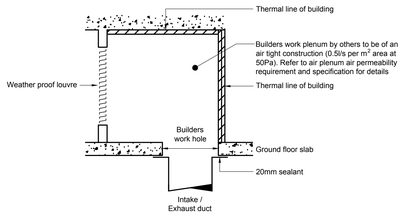


Section View
(Scale 1:20)

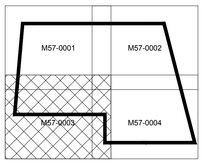


Plan View
(Scale 1:20)

Detail B
Typical Bulkhead Beam
CB-09, 10 & 11
(Scale 1:20)



Intake & Exhaust Plenum
Detail A



Key Plan

This Drawing references The Following Files:
Twelve Architects layouts issued to Asite 22-09-2014: Z(GA)090_Iss7, Z(GA)100_Iss8, Z(GA)110_Iss7, Z(GA)120_Iss7, Z(GA)130_Iss7, Z(GA)140_Iss70 and revit model 'NEB_Project File' issued to Asite 08-08-2014: Z(GA)150, Z(GA)160

SAFETY First & Foremost

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

For details of site wide and general risks to be read in conjunction with these notes, refer to the following documents:

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

Construction and Manufacture
No abnormal risks.

Maintenance, Cleaning and Operation
No abnormal risks.

Decommissioning and Demolition
No abnormal risks.

It is assumed that all works associated with this drawing will be carried out by competent operatives working, where appropriate, to an approved method statement.

Notes

1. Do not scale from the drawing. If in doubt request further information.
2. This information represents a Contract issue drawing in which the spatial coordination has been considered with respect to building fabric and other services. The Ductwork contractor will be expected to undertake a site measure taking congnisance of building and other services to produce fabrication drawings of the ductwork installation.
3. Refer to all electrical, mechanical structural, civil and architectural drawings and specifications.
4. Refer to the architects drawings for details of all building compartmentation. Fire dampers to be installed at all cavity barriers & fire resistant partitions.
5. The contractor shall install all equipment in accordance with manufactures instructions and specifications.
6. Extract ductwork within risers and all supply ductwork shall be fully insulated. All external ductwork shall be appropriately lagged and weatherproofed.
7. Access and inspection panels shall be included within ductwork every 10m and at duct mounted equipment as required by DW/144 and TR/19 Level 2 requirements for inspection, servicing and cleaning.
8. BMS and MPC (Inverters) are indicative. Refer to BMW design information.
9. Refer to layouts for details of in-room ductwork connections, dampers, grilles and emitters.

Legend

m³/s	mm x mm	Commissioning information
m/s	Pa/m	
		Direction of flow
		Attenuator
		Cross talk attenator
VCD		Volume control damper
VAV		Variable volume damper
MD		Motorised Damper
FD		Fire Damper
SD		Smoke Damper
PIR		Presence detector
T		Temperature sensor
FAM		Fast acting motor
C B		Chilled beams
FCU		Fan Coil Units
HB		Heating and Cooling Battery
TG		Transfer grille
		Fan variable speed
		Intake/Exhast Hood

Rev	Date	Description	Eng	Chk	Dn
F	17.10.14	Commissioning Comments.	AB	PT	RT
E	19.09.14	User changes S10-S16 & S18 incorporated.	AB	PT	SH
D	03.09.14	Incorporating 95% review comment, client comments and user changes S01-S09	AB	PT	SH
C	17.07.14	UPDATED AS PER LATEST COMMENTS.	OG	GS	ER
B	09.06.14	NGB COMMENTS.	AB	PT	SH
A	29.05.14	CONSTRUCTION ISSUE.	AB	PT	SH
P4	23.05.14	UPDATED TO USER COMMENTS.	SH	AB	PT
P3	28.03.14	UPDATED TO COMMENTS.	SH	AB	PT
P2	14.02.14	PRELIMINARY ISSUE.	SH	AB	PT
P1	19.12.13	PRELIMINARY ISSUE.	SH	AB	PT

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Client
THE UNIVERSITY OF SHEFFIELD

Contract
NEW ENGINEERING BUILDING
SHEFFIELD

Engineer
A.BROWN
Signed

Checked By
P.THOMPSON
Signed

Title
VENTILATION LAYOUT
GROUND FLOOR
SHEETS 3 OF 4

Drawn By
S.HAZLEHURST
Issue Date
17-10-2014

Status	Scale	Sheet Size	Rev
CONSTRUCTION	1:50	A0	F

Drawing No.
34676-M57-0003

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