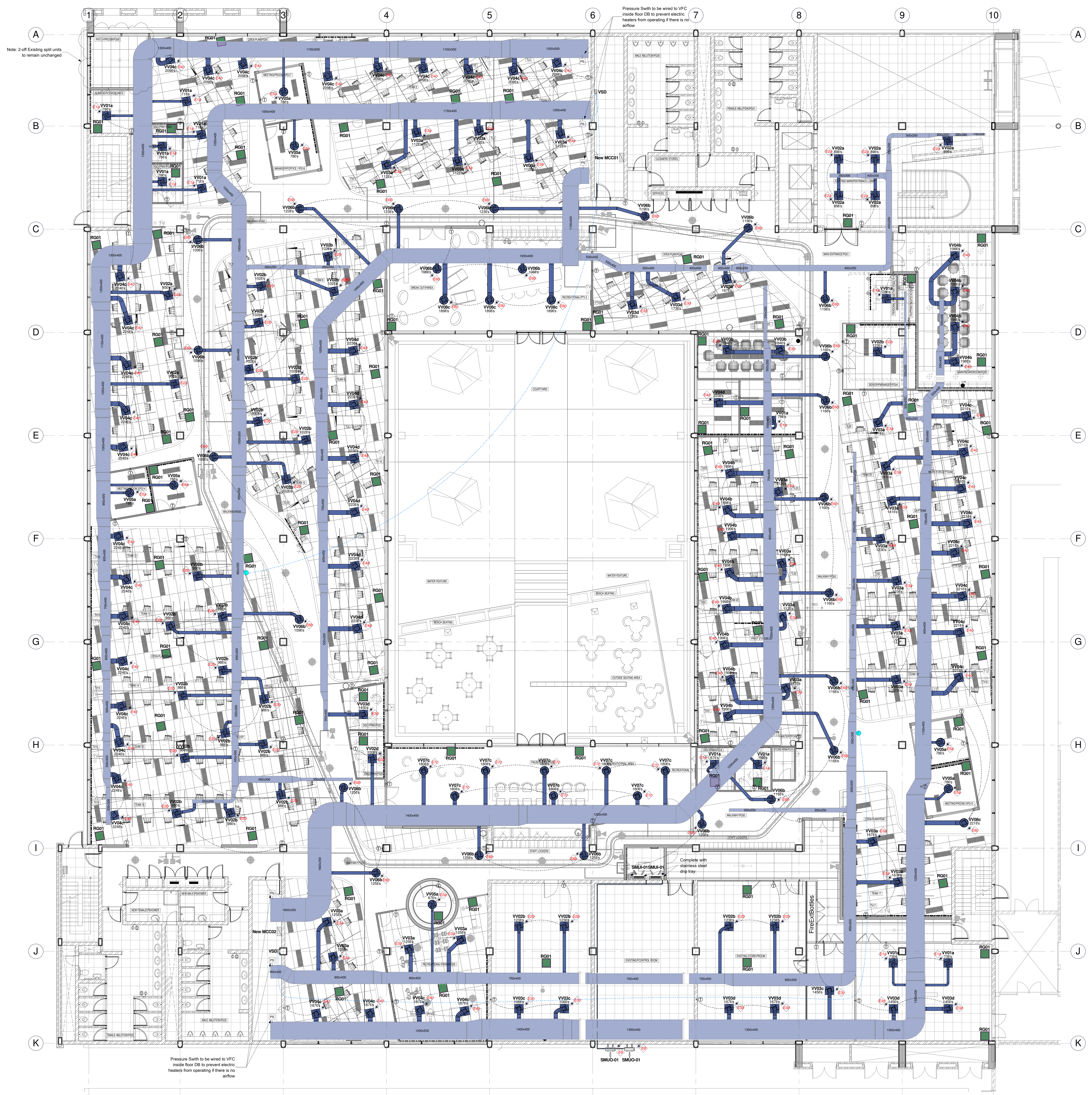

Upgraded Ground Floor

1 : 100

4GF - Electrical Equipment Schedule

Code	Equipment Served	Power Absorbed (kW)	Power (V/ph/Hz)	Location of Power	Fire Signal (Y/N)	No. Off
E1a	VVO1a	0.25	231/1/50	Isolator in ceiling void at diffuser	No	12
E2a	VVO2a	0.25	231/1/50	Isolator in ceiling void at diffuser	No	7
E2b	VVO2b	0.50	231/1/50	Isolator in ceiling void at diffuser	No	26
E2d	VVO2d	1.00	231/1/50	Isolator in ceiling void at diffuser	No	1
E3a	VVO3a	0.50	231/1/50	Isolator in ceiling void at diffuser	No	23
E3b	VVO3b	0.75	231/1/50	Isolator in ceiling void at diffuser	No	3
E3c	VVO3c	1.00	231/1/50	Isolator in ceiling void at diffuser	No	3
E3d	VV03d	1.25	231/1/50	Isolator in ceiling void at diffuser	No	7
E4b	VVO4b	1.00	231/1/50	Isolator in ceiling void at diffuser	No	12
E4c	VVO4c	1.25	231/1/50	Isolator in ceiling void at diffuser	No	34
E4d	VVO4d	1.50	231/1/50	Isolator in ceiling void at diffuser	No	7
E5a	VVO5a	0.25	231/1/50	Isolator in ceiling void at diffuser	No	7
E6b	VVO6b	0.50	231/1/50	Isolator in ceiling void at diffuser	No	24
E7c	VV07c	1.00	231/1/50	Isolator in ceiling void at diffuser	No	8
E8c	VV08c	1.25	231/1/50	Isolator in ceiling void at diffuser	No	4
E9	SMUO-02	1.75	231/1/50	Weather proof isolator at condensing unit	No	2

4GF - Terminal Schedule - Constant Volume

Code	Type	Physical Properties Width (mm)	Height (mm)	Diameter (Ømm)	Air Flow Max (ℓ/s)	Throw Min (m)	Throw Max (m)	Heating Capacity (kW)	Static Pressure (Pa)	Noise Level (NC)	Volume Control Damper (Yes/No)	Connection Size Round (Ømm)	Length (mm)	Width (mm)	No. Off
RG01	RAG 45°	600	600		0.0	0	0		40	30	Yes		600	600	79

4GF - Split DX Units Schedule

Code	Type	Capacity Cooling Total (kW)	Cooling Sensible (kW)	Heating Capacity (kW)	Air Flow (ℓ/s)	Physical Properties Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Power Phase (V/ph/Hz)	Absorbed (kW)	No. Off	Notes
SMUI-01	Midwall	3.5	2.4	3.8	158	820	210	285	8			2	Complete with stainless steel drip tray
SMUO-01	Condensor	3.5	2.4	3.8		660	240	470	25	231/1/50	1.8	2	

4GF - Terminal Schedule - Variable Volume

Code	Type	Physical Properties Width (mm)	Height (mm)	Diameter (Ømm)	Air Flow (ℓ/s) Min	Max	Throw Min (m)	Throw Max (m)	Heating Capacity (kW)	Static Pressure (Pa)	Noise Level (NC)	Volume Control Damper (Yes/No)	Connection Size Round (Ømm)	Length (mm)	Width (mm)	No. Off
VV01a	Swirl	600	600		24	80	0	2.1	0.25	40	29	Yes	150			12
VV02a	Swirl	600	600		39	130	0	2.5	0.25	40	31	Yes	200			7
VV02b	Swirl	600	600		39	130	0	2.5	0.50	40	31	Yes	200			26
VV02d	Swirl	600	600		39	130	0	2.5	1.00	40	31	Yes	200			1
VV03a	Swirl	600	600		56	184	0	3.3	0.50	40	33	Yes	250			23
VV03b	Swirl	600	600		56	184	0	3.3	0.75	40	33	Yes	250			3
VV03c	Swirl	600	600		56	184	0	3.3	1.00	40	33	Yes	250			3
VV03d	Swirl	600	600		56	184	0	3.3	1.25	40	33	Yes	250			7
VV04b	Swirl	600	600		68	225	0	3.3	1.00	40	33	Yes	300			12
VV04c	Swirl	600	600		68	225	0	3.3	1.25	40	33	Yes	300			34
VV04d	Swirl	600	600		68	225	0	3.3	1.50	40	33	Yes	300			7
VV05a	Swirl			600	24	80	0	2.1	0.25	40	29	Yes	150			7
VV06b	Swirl			600	39	130	0	2.5	0.50	40	31	Yes	200			24
VV07c	Swirl			600	56	184	0	3.3	1.00	40	33	Yes	250			8
VV08c	Swirl			600	68	225	0	3.3	1.25	40	33	Yes	300			4

Revisions:

Rev	Description	Date	By
0	Issued for Tender	01.11.2017	FMB

Standard Mechanical Notes:

This drawing shall not be used as a construction/ installation drawing.

Routes and zones have been allocated to this service, locations dimensions are indicated of these.

To prepare his construction/ installation drawing, the (sub) contractor shall adhere to this co-ordination principle and shal inspect all the architect's drawings, including structura; and other services design drawings pertaiing to the works. The (sub) contractor shall acqaint him/herself with the general arrangement of all other services and ensure that in fixing his/her work it shall not obstruct the fixing of future maintenance of other services.

The (sub) contractor shall be responsible for the correct field dimensions: clearances and heights, quantities, fabrication processes and techniques of construction co-ordintation of his/her work with that of all other trades, providing all devices necessary for safe and satisfactory operation.

Legend:

- Existing externally insulated supply air ducting
- Externally insulated supply air ducting
- Externally insulated return air ducting
- Fresh Air Ducting
- Blacksteel Ducting
- Extract Air Ducting
- Externally insulated chilled water return piping
- Externally insulated chilled water supply piping
- T: ø50mm outlet box with ø20mm conduit and draw wire mounted at 1750 AFFL for room sensor.
- FB: Full bore drain
- PS: Pressure switch
- Pressure sensor
- DP: Drain point below ceiling
- DP: Drain point above ceiling
- Single phase isolator
- Three phase isolator
- KS: Key switch
- I/O: Fire signal
- NFI: No Flow Interlock

This drawing is based on Architects drawing No:

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SPOORMAKER & PARTNERS
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS

Project:

SARS ALBERTON

Drawing Title:

Ground Floor Enforcement HVAC Layout

Designed	Drawn	Checked Quality	Checked Design	Passed PR Eng	Date	Size	Scale
MD	HLR	SE	MD	HLR	17.10.2017	A0	1 : 100

Drawing Status : **Issued for Tender**

Project Number	Division	Service	Drawing Number	Revision
17389	M	A	4GF	0