

P23-027 The Range Stowmarket

Drawing Register: WM Building Services

*Please note: All drawings listed below are hyperlinked to the drawings listed.
Please click on the drawing title to go directly to the drawing of your choice.*

Works Completed:

Mechanical Works

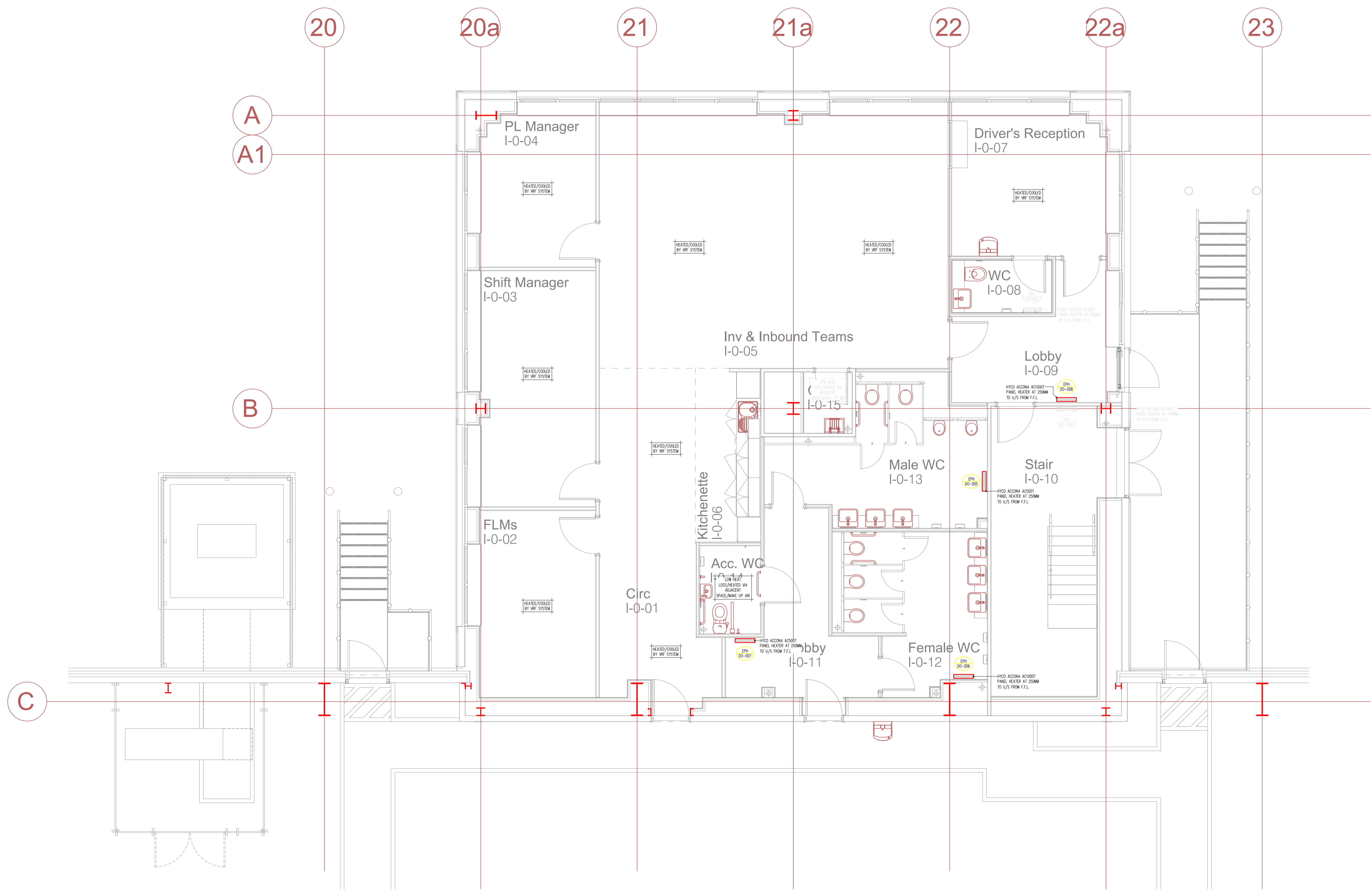
Drawing No.	Drawing Title	Rev
P23027-WMB-D1-00-DR-M-0200	Distribution Office No.1 Ground Floor Electric Heating Services Layout	AB
P23027-WMB-D1-00-DR-M-0300	Distribution Office No.1 Ground Floor Domestic Water Services Layout	AB
P23027-WMB-D1-00-DR-M-0400	Distribution Office No.1 Ground Floor VRF Heating & Cooling Services Layout	AB
P23027-WMB-D1-00-DR-M-0500	Distribution Office No.1 Ground Floor Public Health Services Layout	AB
P23027-WMB-D1-00-DR-M-0600	Distribution Office No.1 Ground Floor Ventilation Services Layout	AB
P23027-WMB-D1-00-DR-M-0900	Distribution Office No.1 Ground Floor Mechanical Services Wiring Layout	AB
P23027-WMB-D1-01-DR-M-0201	Distribution Office No.1 First Floor Electric Heating Services Layout	AB
P23027-WMB-D1-01-DR-M-0301	Distribution Office No.1 First Floor Domestic Water Services Layout	AB
P23027-WMB-D1-01-DR-M-0401	Distribution Office No.1 First Floor VRF Heating & Cooling Services Layout	AB
P23027-WMB-D1-01-DR-M-0501	Distribution Office No.1 First Floor Public Health Services Layout	AB
P23027-WMB-D1-01-DR-M-0601	Distribution Office No.1 First Floor Ventilation Services Layout	AB
P23027-WMB-D1-01-DR-M-0901	Distribution Office No.1 First Floor Mechanical Services Wiring Layout	AB
P23027-WMB-D1-02-DR-M-0302	Distribution Office No.1 Second Floor Plant Deck Domestic Water Services Layout	AB
P23027-WMB-D1-02-DR-M-0402	Distribution Office No.1 Second Floor Plant Deck VRF Heating & Cooling Services Layout	AB
P23027-WMB-D1-02-DR-M-0502	Distribution Office No.1 Second Floor Plant Deck Public Health Services Layout	AB
P23027-WMB-D1-02-DR-M-0602	Distribution Office No.1 Second Floor Plant Deck Ventilation Services Layout	AB
P23027-WMB-D1-02-DR-M-0902	Distribution Office No.1 Second Floor Plant Deck Mechanical Services Wiring Layout	AB
P23027-WMB-D1-ZZ-DR-M-0100	Distribution Office No.1 Inbound Primary Ventilation Schematic	AB
P23027-WMB-D1-ZZ-DR-M-0102	Distribution Office No.1 Inbound Toilet Extract Ventilation Schematic	AB
P23027-WMB-D1-ZZ-DR-M-0108	Distribution Office No.1 Inbound Domestic Water Services Schematic	AB
P23027-WMB-D2-00-DR-M-0202	Distribution Office No. 2 Ground Floor Electric Heating Services Layout	AB

Drawing No.	Drawing Title	Rev
P23027-WMB-D2-00-DR-M-0303	Distribution Office No.2 Ground Floor Domestic Water Services Layout	AB
P23027-WMB-D2-00-DR-M-0403	Distribution Office No. 2 Ground Floor VRF Heating & Cooling Services Layout	AB
P23027-WMB-D2-00-DR-M-0503	Office No. 2 Ground Floor Public Health Services Layout	AB
P23027-WMB-D2-00-DR-M-0603	Distribution Office No. 2 Ground Floor Ventilation Services Layout	AB
P23027-WMB-D2-00-DR-M-0903	Distribution Office No. 2 Ground Floor Mechanical Services Wiring Layout	AB
P23027-WMB-D2-01-DR-M-0203	Distribution Office No. 2 First Floor Electric Heating Services Layout	AB
P23027-WMB-D2-01-DR-M-0304	Distribution Office No.2 First Floor Domestic Water Services Layout	AB
P23027-WMB-D2-01-DR-M-0404	Distribution Office No. 2 First Floor VRF Heating & Cooling Services Layout	AB
P23027-WMB-D2-01-DR-M-0504	Distribution Office No. 2 First Floor Public Health Services Layout	AB
P23027-WMB-D2-01-DR-M-0604	Distribution Office No. 2 First Floor Ventilation Services Layout	AB
P23027-WMB-D2-01-DR-M-0904	Office No. 2 First Floor Mechanical Services Wiring Layout	AB
P23027-WMB-D2-02-DR-M-0305	Distribution Office No.2 Second Floor Plant Deck Domestic Water Services Layout	AB
P23027-WMB-D2-02-DR-M-0405	Distribution Office No. 2 Second Floor Plant Deck VRF Heating & Cooling Services Layout	AB
P23027-WMB-D2-02-DR-M-0505	Distribution Office No. 2 Second Floor Plant Deck Public Health Services Layout	AB
P23027-WMB-D2-02-DR-M-0605	Distribution Office No. 2 Second Floor Plant Deck Ventilation Services Layout	AB
P23027-WMB-D2-02-DR-M-0905	Distribution Office No. 2 Second Floor Plant Deck Mechanical Services Wiring Layout	AB
P23027-WMB-D2-ZZ-DR-M-0101	Distribution Office No. 2 Outbound Primary Ventilation Schematic	AB
P23027-WMB-D2-ZZ-DR-M-0103	Distribution Office No. 2 Outbound Toilet Extract Ventilation Schematic	AB
P23027-WMB-D2-ZZ-DR-M-0109	Distribution Office No. 2 Outbound Domestic Water Services Schematic	AB
P23027-WMB-MO-00-DR-M-0204	Main Office Ground Floor Electric Heating Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0205	Main Office Ground Floor Electric Heating Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-00-DR-M-0306	Main Office Ground Floor Domestic Water Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0307	Main Office Ground Floor Domestic Water Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-00-DR-M-0406	Main Office Ground Floor VRF Heating & Cooling Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0407	Main Office Ground Floor VRF Heating & Cooling Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-00-DR-M-0506	Main Office Ground Floor Public Health Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0507	Main Office Ground Floor Public Health Services Layout Sheet 1 of 2	AB

Drawing No.	Drawing Title	Rev
P23027-WMB-MO-00-DR-M-0606	Main Office Ground Floor Ventilation Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0607	Main Office Ground Floor Ventilation Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-00-DR-M-0907	Main Office Ground Floor Mechanical Services Wiring Layout Sheet 1 of 2	AB
P23027-WMB-MO-00-DR-M-0908	Main Office Ground Floor Mechanical Services Wiring Layout Sheet 2 of 2	AB
P23027-WMB-MO-01-DR-M-0206	Main Office First Floor Electric Heating Services Layout	AB
P23027-WMB-MO-01-DR-M-0308	Main Office First Floor Domestic Water Services Layout	AB
P23027-WMB-MO-01-DR-M-0408	Main Office First Floor VRF Heating & Cooling Services Layout	AB
P23027-WMB-MO-01-DR-M-0508	Main Office First Floor Public Health Services Layout	AB
P23027-WMB-MO-01-DR-M-0608	Main Office First Floor Ventilation Services Layout	AB
P23027-WMB-MO-01-DR-M-0909	Main Office First Floor Mechanical Services Wiring Layout	AB
P23027-WMB-MO-02-DR-M-0207	Main Office Second Floor Electric Heating Services Layout	AB
P23027-WMB-MO-02-DR-M-0309	Main Office Second Floor Plant Deck Domestic Water Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-02-DR-M-0310	Main Office Second Floor Plant Deck Domestic Water Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-02-DR-M-0409	Main Office Second Floor Plant Deck VRF Heating & Cooling Services Layout	AB
P23027-WMB-MO-02-DR-M-0509	Main Office Second Floor Plant Deck Public Health Services Layout	AB
P23027-WMB-MO-02-DR-M-0609	Main Office Second Floor Plant Deck Ventilation Services Layout Sheet 1 of 2	AB
P23027-WMB-MO-02-DR-M-0610	Main Office Second Floor Plant Deck Ventilation Services Layout Sheet 2 of 2	AB
P23027-WMB-MO-02-DR-M-0910	Main Office Second Floor Plant Deck Mechanical Services Wiring Layout	AB
P23027-WMB-MO-ZZ-DR-M-0104	Main Office System Primary Ventilation Schematic	AB
P23027-WMB-MO-ZZ-DR-M-0105	Main Office Gym Ventilation Schematic	AB
P23027-WMB-MO-ZZ-DR-M-0106	Main Office Toilet & Locker Room Ventilation Schematic	AB
P23027-WMB-MO-ZZ-DR-M-0107	Main Office Canteen Ventilation Schematic	AB
P23027-WMB-MO-ZZ-DR-M-0110	Main Office Domestic Water Services Schematic	AB
P23027-WMB-WH-00-DR-M-1000	Distribution Office 1 Warehouse & External ASHP Heating Services Layout	AB
P23027-WMB-WH-00-DR-M-1002	Distribution Office 2 Warehouse & External ASHP Heating Services Layout	AB
P23027-WMB-WH-02-DR-M-1001	Distribution Office 1 Plantroom ASHP Heating Services Layout	AB
P23027-WMB-WH-02-DR-M-1003	Distribution Office 2 Plantroom ASHP Heating Services Layout	AB
P23027-WMB-WH-ZZ-DR-M-0100	Distribution Office 1 Warehouse Frost Protection ASHP LTHW Heating Schematic	AB
P23027-WMB-WH-ZZ-DR-M-0101	Distribution Office 2 Warehouse Frost Protection ASHP LTHW Heating Schematic	AB
P23027-WMB-ZZ-00-DR-M-0906	Distribution Office No 1 & 2 External ASHP Mechanical Services Wiring Layout	AB

- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS

ELECTRIC HEATER SCHEDULE											
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-DO-001	HYCO	ACCONA	AC500T	GF UNISEX WC	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-002	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-005	HYCO	ACCONA	AC500T	GF MALE WC	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-006	HYCO	ACCONA	AC1000T	GF FEMALE WC	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-007	HYCO	ACCONA	AC500T	GF WC LOBBY	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-008	HYCO	ACCONA	AC1000T	GF LOBBY	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-101	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-103	HYCO	ACCONA	AC1000T	FF KITCHENETTE	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-104	HYCO	ACCONA	AC500T	FF WC LOBBY	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

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BES, SAFE, REA

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 1
 Ground Floor Electric
 Heating Services Layout**

Scale at A1: 1:50 | Date: 10.02.24 | Designed: L.S. | Drawn: L.S. | Design Check: J.M.

Drawing No: P23027-WMB-D1-00-DR-M-0200 | Rev: -

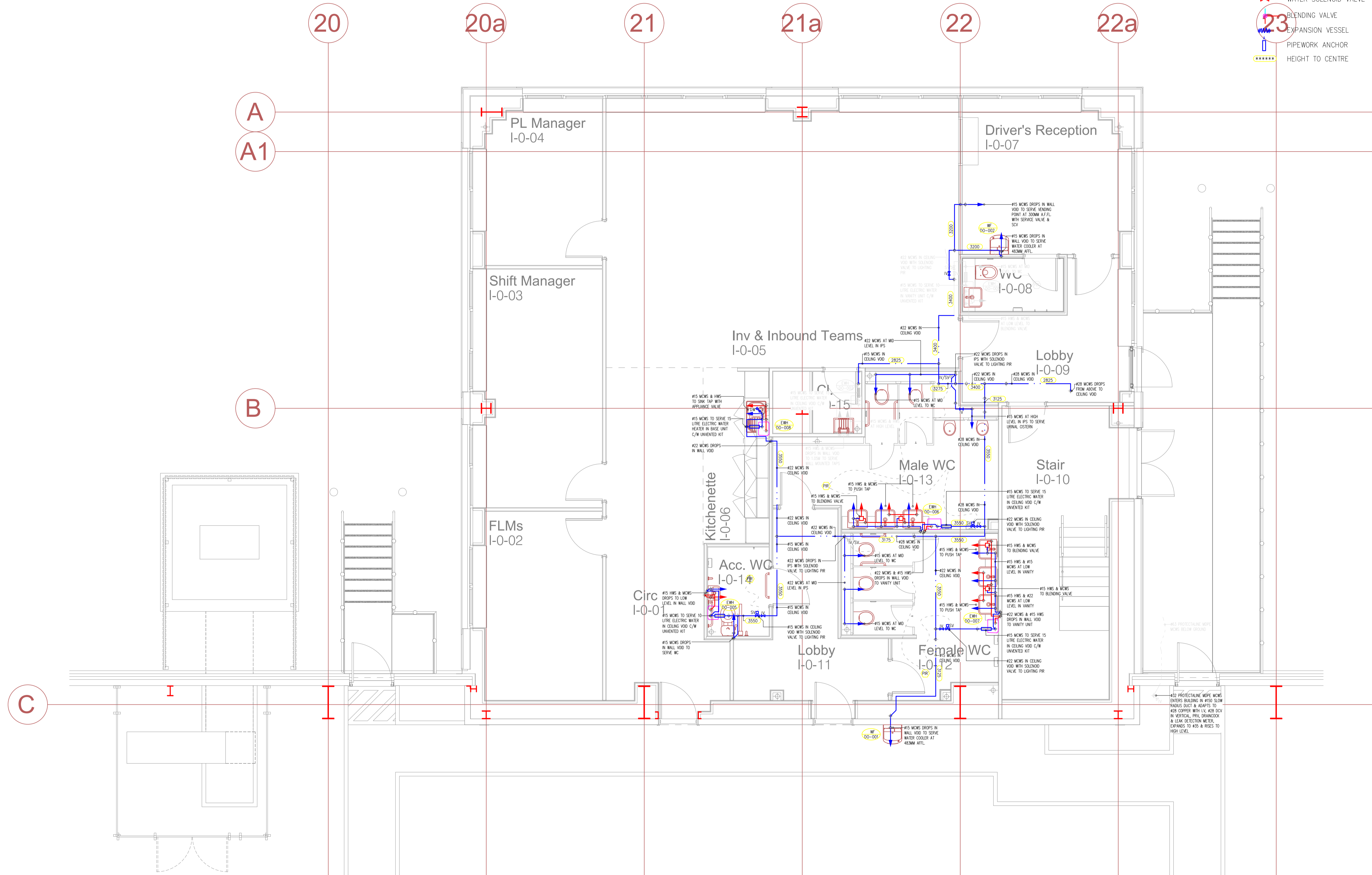
AS FITTED

ELECTRIC WATER HEATER SCHEDULE									
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	ELEC. SUPPLY
EW-H-DO-001	HYCO	SPEEDFLOW	SFK 10	GF UNSEX	2000	410x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-002	HYCO	SPEEDFLOW	SFK 15	GF CLEANERS	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-005	HYCO	SPEEDFLOW	SFK 10	GF DISABLED WC	2000	410x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-006	HYCO	SPEEDFLOW	SFK 15	GF MALE WC	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-007	HYCO	SPEEDFLOW	SFK 15	GF FEMALE WC	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-008	HYCO	SPEEDFLOW	SFK 15	GF TEA POINT	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-101	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-102	HYCO	SPEEDFLOW	SFK 15	FF CLEANERS	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-103	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EW-H-DO-104	HYCO	SPEEDFLOW	SFK 15	FF TEA POINT	2000	530x310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz

WATER COOLERS							
REF NO	LOCATION	MAKE	TYPE	MODEL	CONN. (mm)	CAPACITY (L/HOUR)	DIM WxLxH
WF-DO-001	WAREHOUSE	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310
WF-DO-002	GF DRIVERS RECEPTION	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310

LEGEND	
	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HWS HOT WATER SERVICE
	MCWS MAINS COLD WATER SERVICE
	RWS RAINWATER SERVICE
	ISOLATING VALVE
	PRESSURE REDUCING VALVE
	LOCKSHIELD VALVE
	DOUBLE CHECK VALVE
	THERMAL BALANCING VALVE
	WATER SOLENOID VALVE
	BLENDED VALVE
	EXPANSION VESSEL
	PIPEWORK ANCHOR
	HEIGHT TO CENTRE

- NOTES**
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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.



REV	DATE	DESCRIPTION	BY



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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 Ground Floor Domestic
 Water Services Layout**

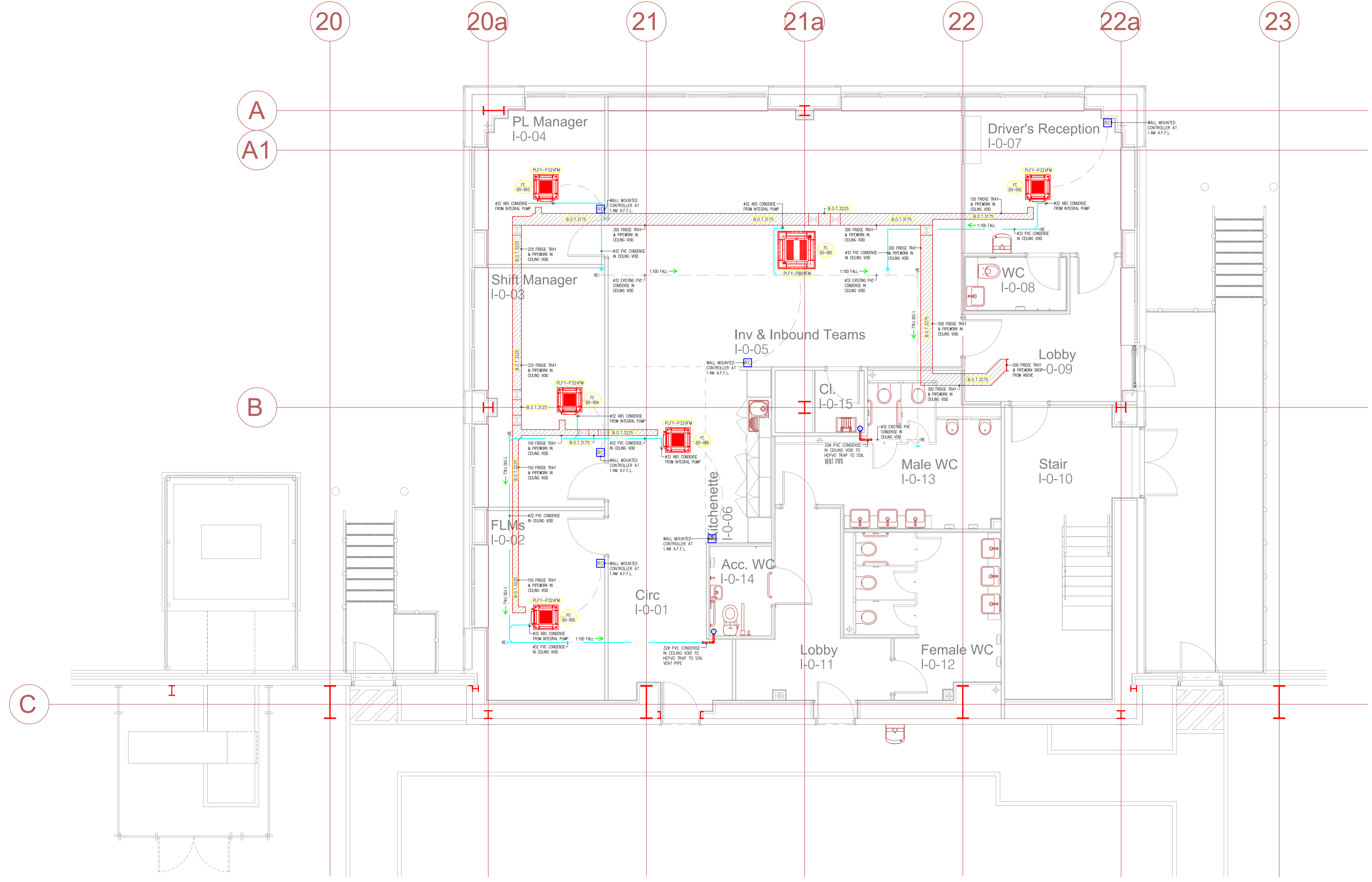
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Drawing No:	Rev:			
P23027-WMB-D1-00-DR-M-0300	-			

AS FITTED

AIR CONDITIONING INDOOR UNIT SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING / LOCATION	PIPE SIZE (Gas-Liquid)	TOTAL COOLING DUTY (kW)	SENSIBLE COOLING DUTY (kW)	HTG. DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ELEC SUPPLY
FCU-DO-001	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M80VEM-E	GF INV & INBOUND TEAMS	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-002	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF DRIVERS RECEPTION	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-003	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF PL MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-004	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF SHIFT MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-005	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF FLM OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-006	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VFM-E	GF TEA POINT/CIRCULATION	12.7mm - 6.35mm	5	3.6	6.3	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-101	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF TRAINING TEAM & HR	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-102	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF TRAINING TEAM & HR	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-103	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF WAREHOUSE MANAGER	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-DO-104	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M80VEM-E	FF OPEN OFFICE	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER
RETAINED EXISTING SERVICES SHOWN HATCHED	



REV	DATE	DESCRIPTION	BY

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Project: The Range Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: winvic

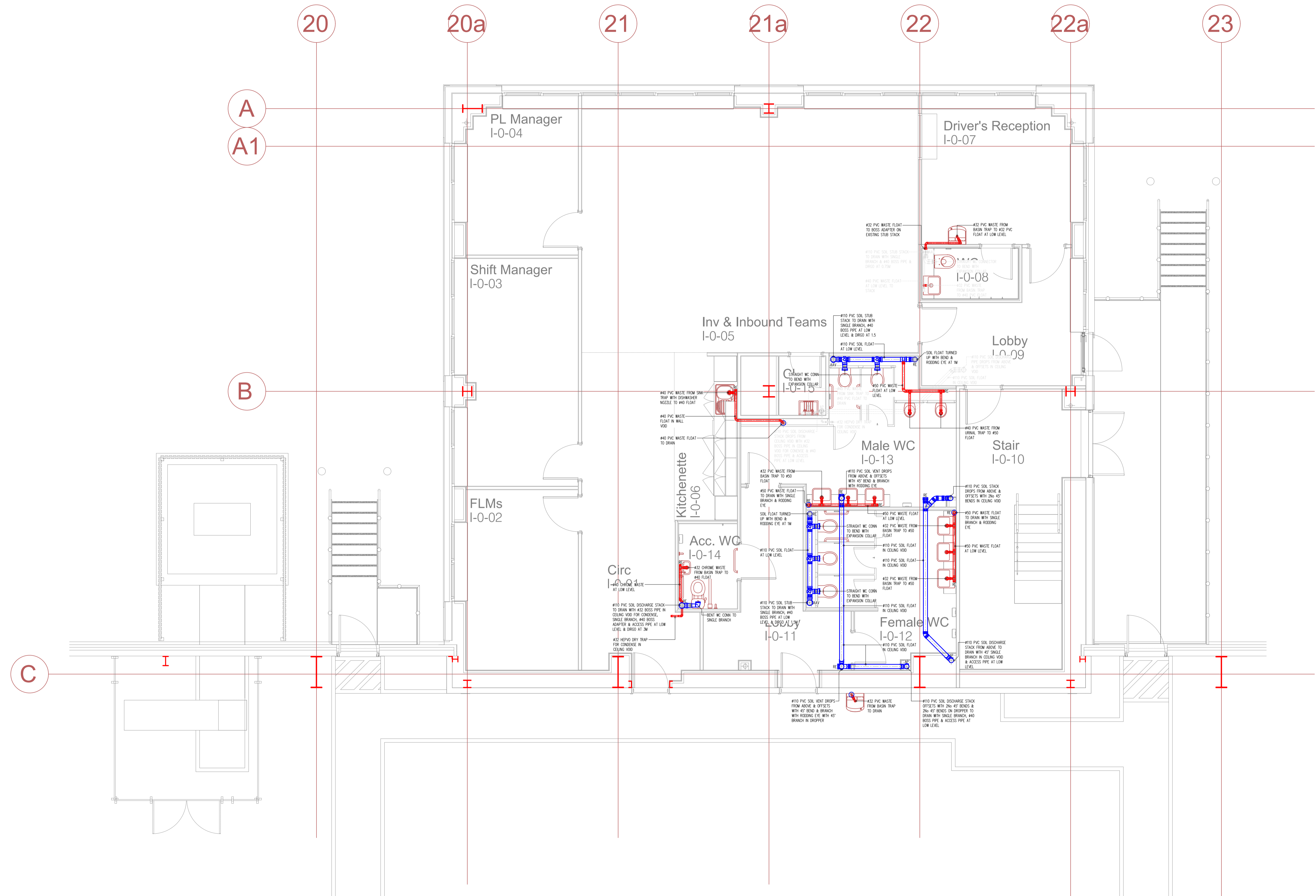
**Title: Distribution Office No. 1
 Ground Floor VRF Heating & Cooling Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-D1-00-DR-M-0400		Rev:	-

AS FITTED

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - SOIL PIPEWORK IS TERRAIN GREY UPVC. WASTE PIPEWORK IS TERRAIN WHITE UPVC.
 - ROOFING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.0M A.F.F.L.
 - MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS PER GUIDANCE.
 - FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	1:55
MULTIPLE WC	1:111 - 1:11



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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 Ground Floor Public
 Health Services Layout**

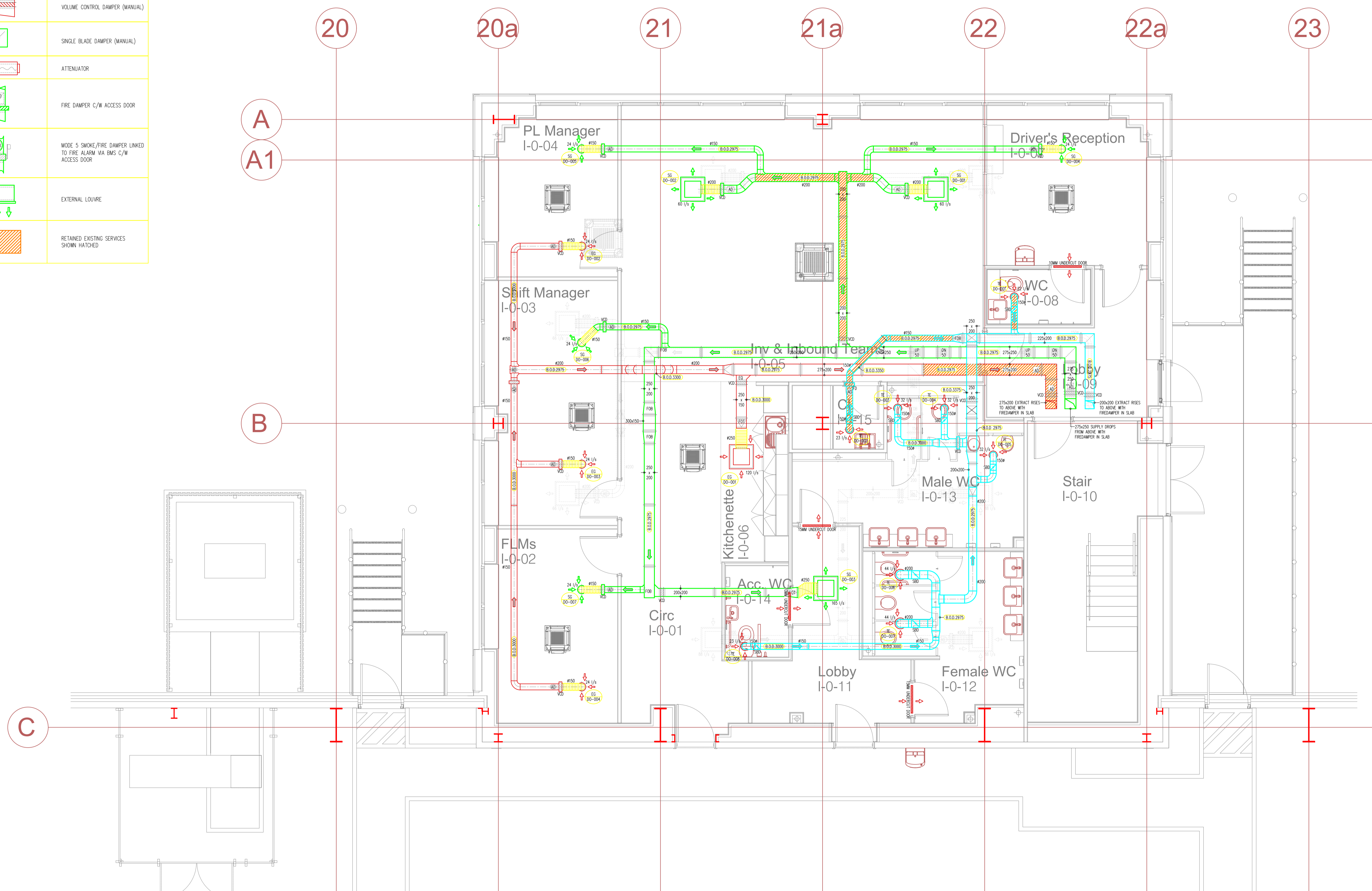
Scale at A1:	Date:	Designed:	Drawn:	Design Check:
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Drawing No:	Rev:
P23027-WMB-D1-00-DR-M-0500	-

AS FITTED

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED

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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES
 SAFE
 REA

Project:

The RANGE
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

Client:

winvic

Title:

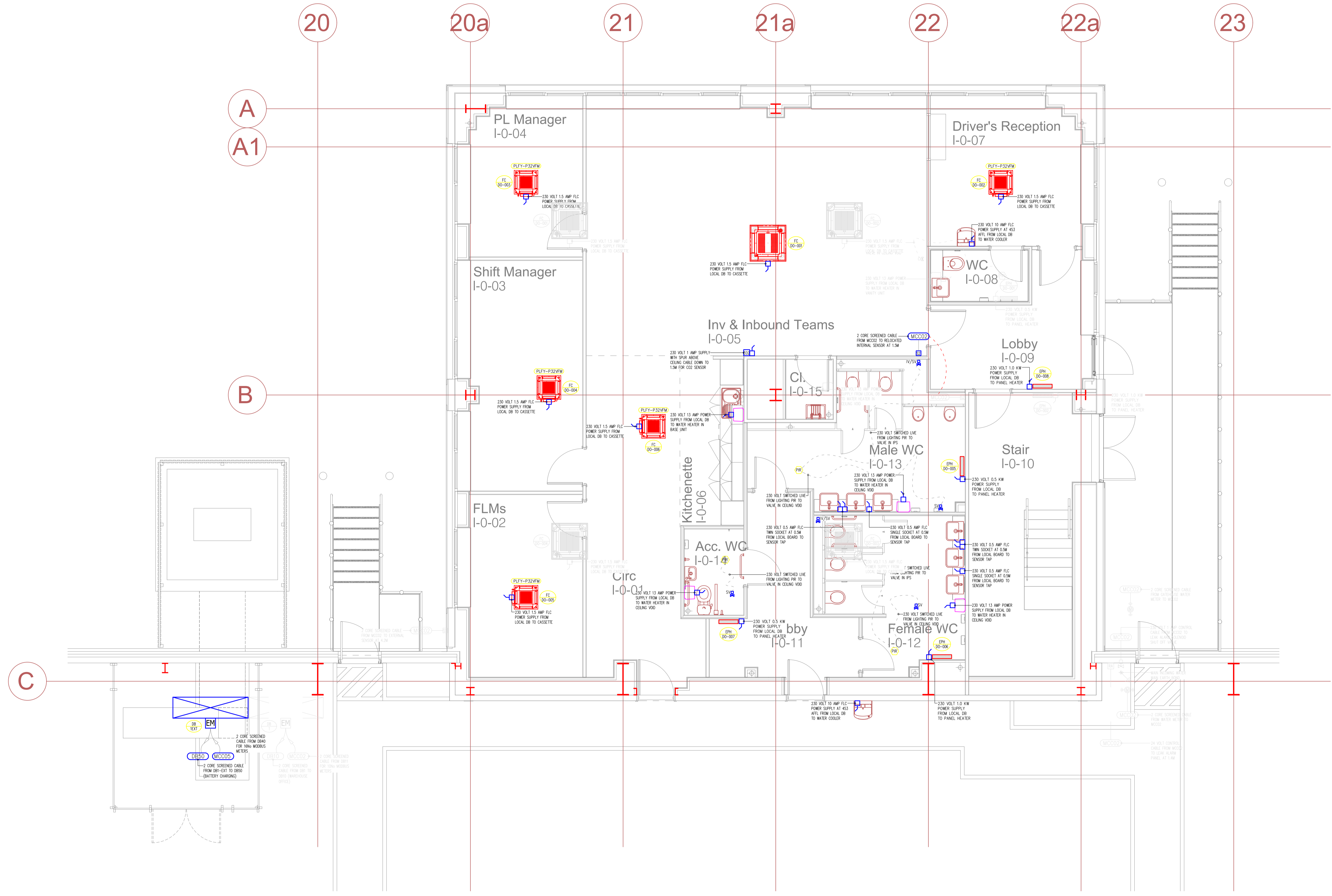
**Distribution Office No. 1
 Ground Floor Ventilation
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D1-00-DR-M-0600	-

AS FITTED

- NOTES**
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 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS



REV	DATE	DESCRIPTION	BY
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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 Ground Floor Mechanical
 Services Wiring Layout**

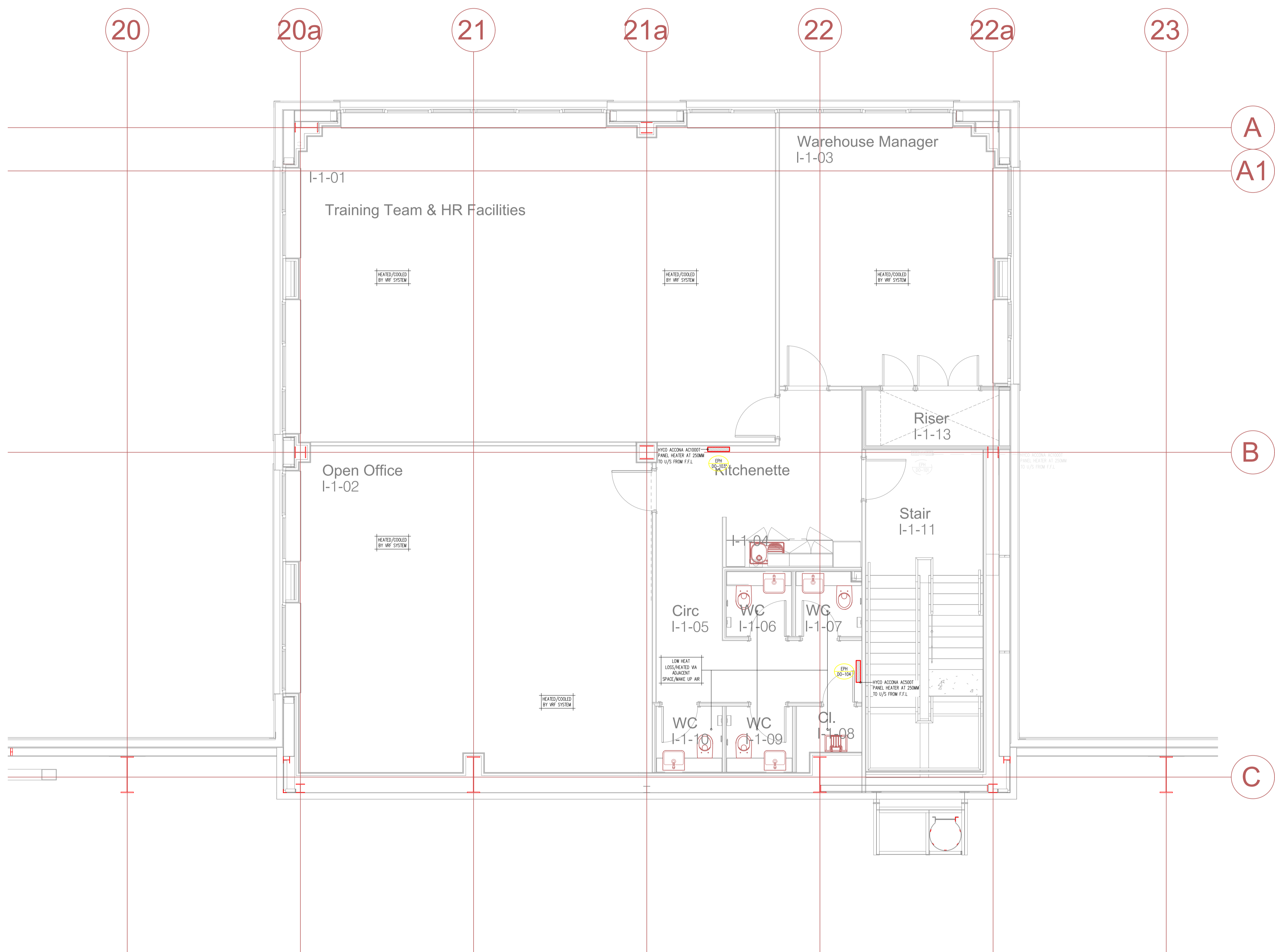
Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D1-00-DR-M-0900	-

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 5. ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS

REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	ELECTRIC HEATER SCHEDULE						
					POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-DO-001	HYCO	ACCONA	AC500T	GF UNISEX WC	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-002	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-005	HYCO	ACCONA	AC500T	GF MALE WC	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-006	HYCO	ACCONA	AC1000T	GF FEMALE WC	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-007	HYCO	ACCONA	AC500T	GF WC LOBBY	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-008	HYCO	ACCONA	AC1000T	GF LOBBY	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-101	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-103	HYCO	ACCONA	AC1000T	FF KITCHENETTE	1000	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-104	HYCO	ACCONA	AC500T	FF WC LOBBY	500	460Wx400Hx90D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz



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BES, SAFE, REA

Project: **The RANGE**
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 1
 First Floor Electric Heating
 Services Layout**

Scale at A1: Date: 10.02.24 Designed: L.S. Drawn: L.S. Design Check: J.M.

Drawing No: **P23027-WMB-D1-01-DR-M-0201** Rev: -

AS FITTED

ELECTRIC WATER HEATER SCHEDULE									
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	ELEC. SUPPLY
EWHD-001	HYCO	SPEEDFLOW	SFK 10	GF UNSEX	2000	410x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-002	HYCO	SPEEDFLOW	SFK 15	GF CLEANERS	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-005	HYCO	SPEEDFLOW	SFK 10	GF DISABLED WC	2000	410x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-006	HYCO	SPEEDFLOW	SFK 15	GF MALE WC	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-007	HYCO	SPEEDFLOW	SFK 15	GF FEMALE WC	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-008	HYCO	SPEEDFLOW	SFK 15	GF TEA POINT	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-101	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-102	HYCO	SPEEDFLOW	SFK 15	FF CLEANERS	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-103	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWHD-104	HYCO	SPEEDFLOW	SFK 15	FF TEA POINT	2000	530x310x280D	ELEC	SF7 KIT	230V 1Ph 50Hz

WATER COOLERS							
REF NO	LOCATION	MAKE	TYPE	MODEL	CONN. (mm)	CAPACITY (L/HOUR)	DIM WxDxH
WF-DC-001	WAREHOUSE	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ09WSS2KN	15MM	37	454x483x1310
WF-DC-002	GF DRIVERS RECEPTION	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ09WSS2KN	15MM	37	454x483x1310

LEGEND	
	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HWS HOT WATER SERVICE
	MCWS MAINS COLD WATER SERVICE
	RWS RAINWATER SERVICE
	IV ISOLATING VALVE
	PRV PRESSURE REDUCING VALVE
	LSV LOCKSHIELD VALVE
	DCV DOUBLE CHECK VALVE
	TBV THERMAL BALANCING VALVE
	SV WATER SOLENOID VALVE
	BV BLENDING VALVE
	EV EXPANSION VESSEL
	PA PIPEWORK ANCHOR
	HTC HEIGHT TO CENTRE

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 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.



REV	DATE	DESCRIPTION	BY

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 Email: office@wmbuildingservices.com
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APPROVED INSTALLER:

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:

Title:
**Distribution Office No. 1
 First Floor Domestic Water
 Services Layout**

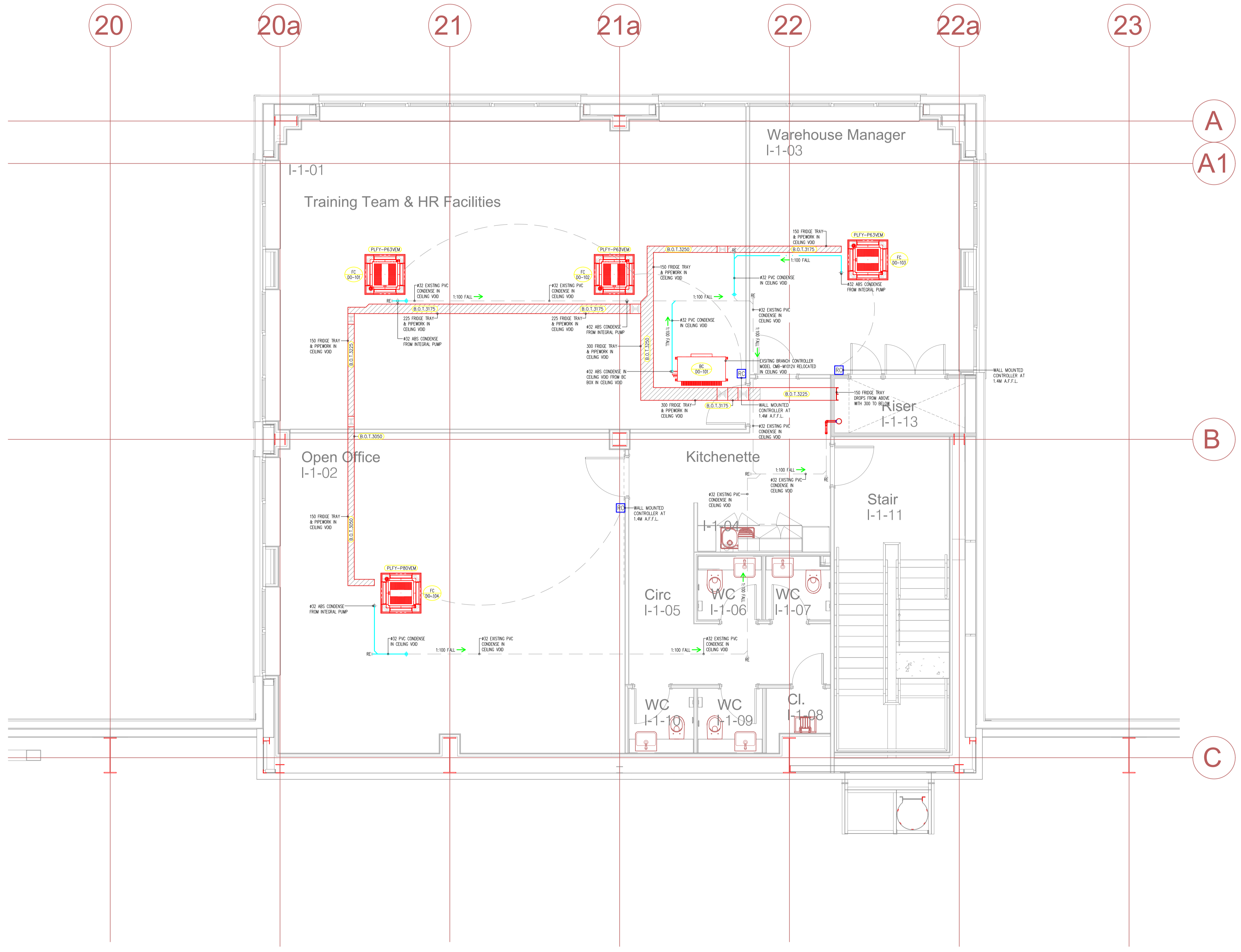
Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-D1-01-DR-M-0301			
Rev:	-			

AS FITTED

AIR CONDITIONING INDOOR UNIT SCHEDULE													
REF NO.	MAKE	TYPE	MODEL	SERVING / LOCATION	PIPE SIZE (Gas-Liquid)	TOTAL COOLING DUTY (kW)	SENSIBLE COOLING DUTY (kW)	HTG. DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ACCESSORIES	ELEC SUPPLY
FCU-DO-001	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M80VEM-E	GF INV & INBOUND TEAMS	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	AE200 CENTRAL CONTROLLER	230V-1Ph-50Hz
FCU-DO-002	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF DRIVERS RECEPTION	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-003	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF PL.MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-004	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF SHIFT MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-005	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF FLM OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-006	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VFM-E	GF TEA POINT/CIRCULATION	12.7mm - 6.35mm	5	3.6	6.3	245x570x570	15	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-101	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF TRAINING TEAM & HR	15.9mm - 9.5mm	8.4	4.9	8.0	258x840x840	21	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-102	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF TRAINING TEAM & HR	15.9mm - 9.5mm	8.4	4.9	8.0	258x840x840	21	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-103	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M83VEM-E	FF WAREHOUSE MANAGER	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA		230V-1Ph-50Hz
FCU-DO-104	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M80VEM-E	FF OPEN OFFICE	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA		230V-1Ph-50Hz

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved Retailer: **REA**

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

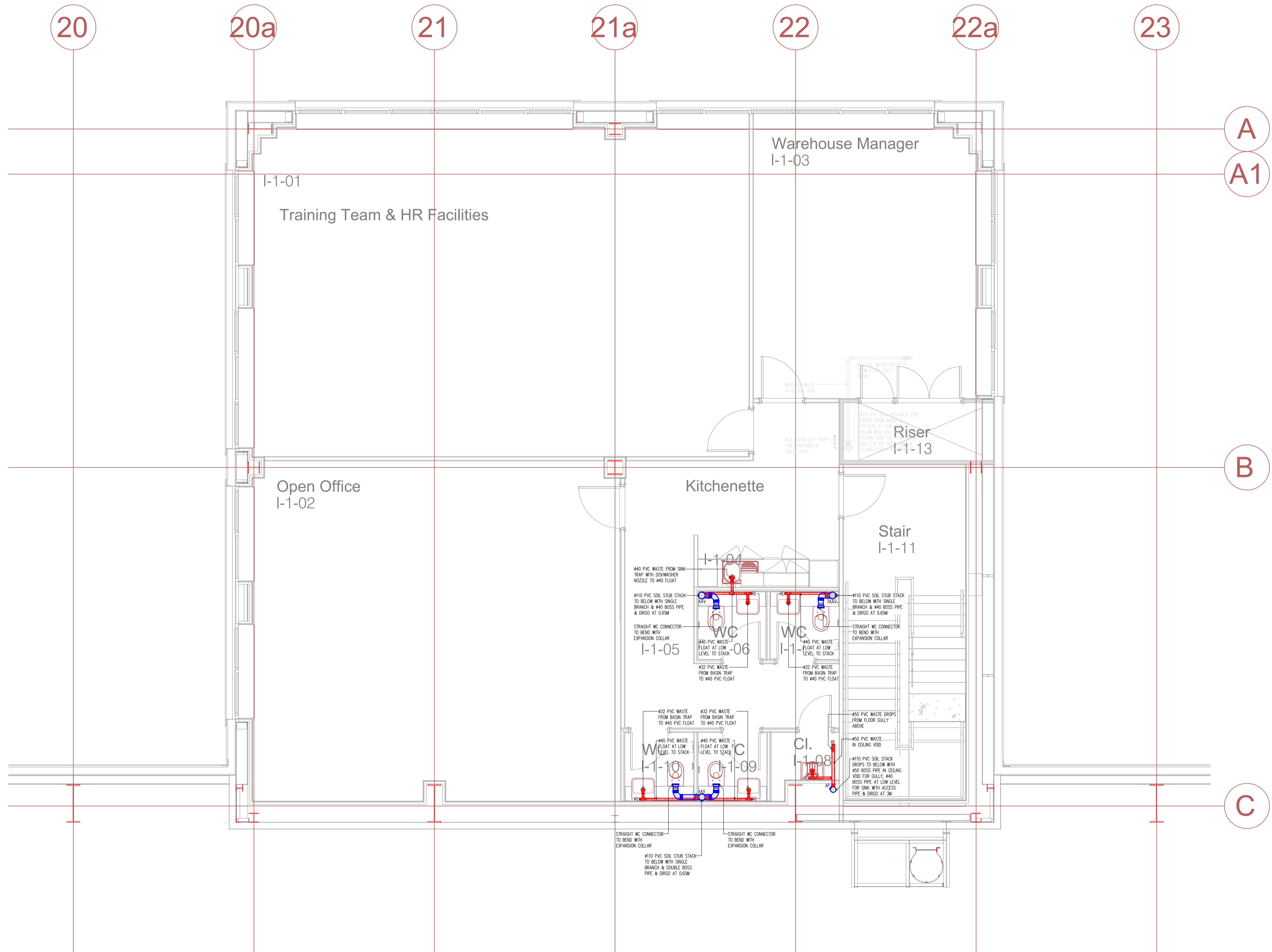
Title: **Distribution Office No. 1
 First Floor VRF Heating &
 Cooling Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D1-01-DR-M-0401	-			

AS FITTED

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - SOIL PIPEWORK IS TERRAZO GREY uPVC. WASTE PIPEWORK IS TERRAZO WHITE uPVC.
 - RODDING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.2M A.F.F.L.
 - MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS PER GUIDANCE.
 - FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	MIN 1:55
MULTIPLE WC	1:111 - 1:11



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BES, SAFE, REA logos.

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 1
 First Floor Public Health
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D1-01-DR-M-0501	-			

AS FITTED

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED



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 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH

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Project: **The RANGE**
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PLOT 4000 STOWMARKET

Client: **winvic**

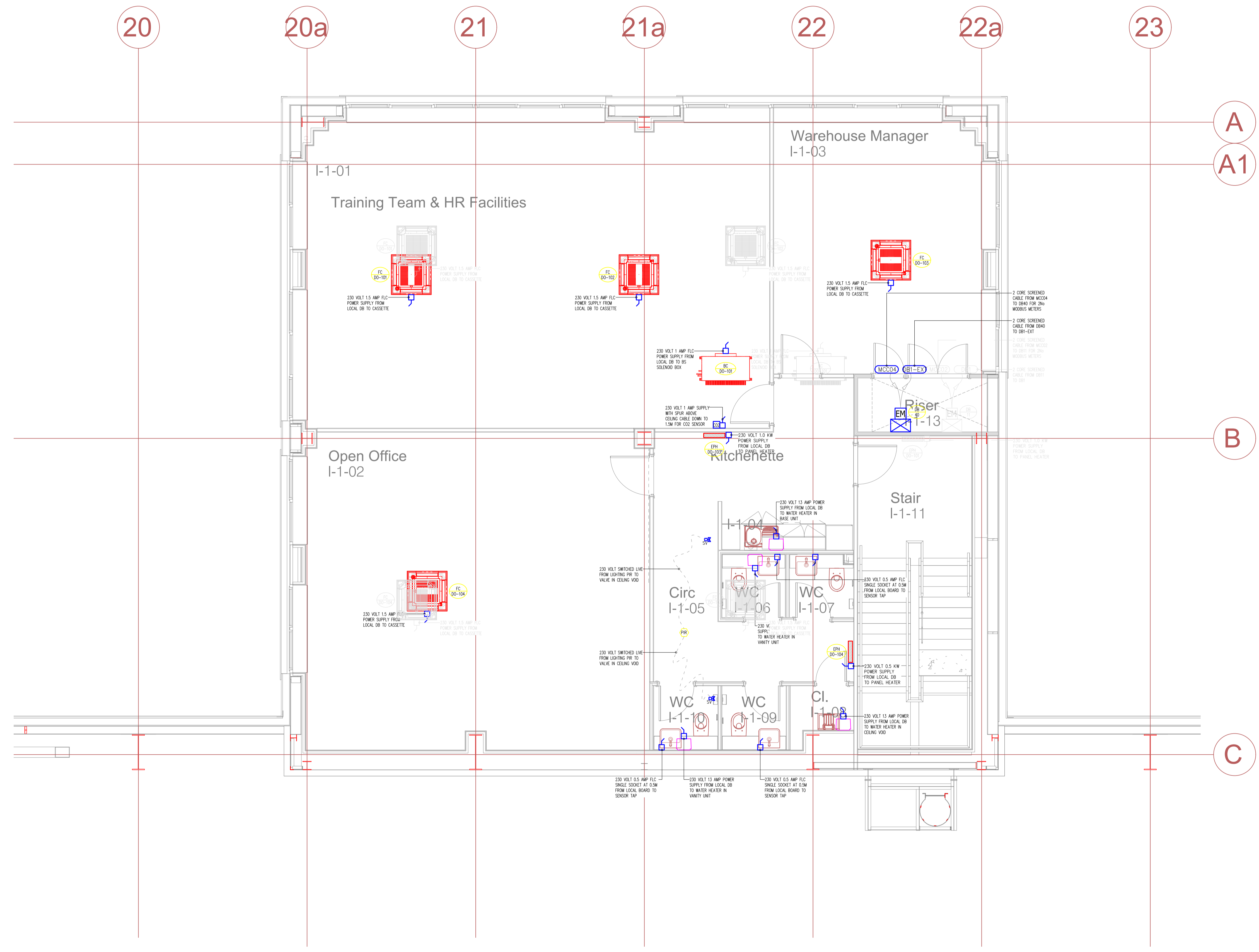
Title: **Distribution Office No. 1
 First Floor Ventilation
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-D1-01-DR-M-0601** Rev: -

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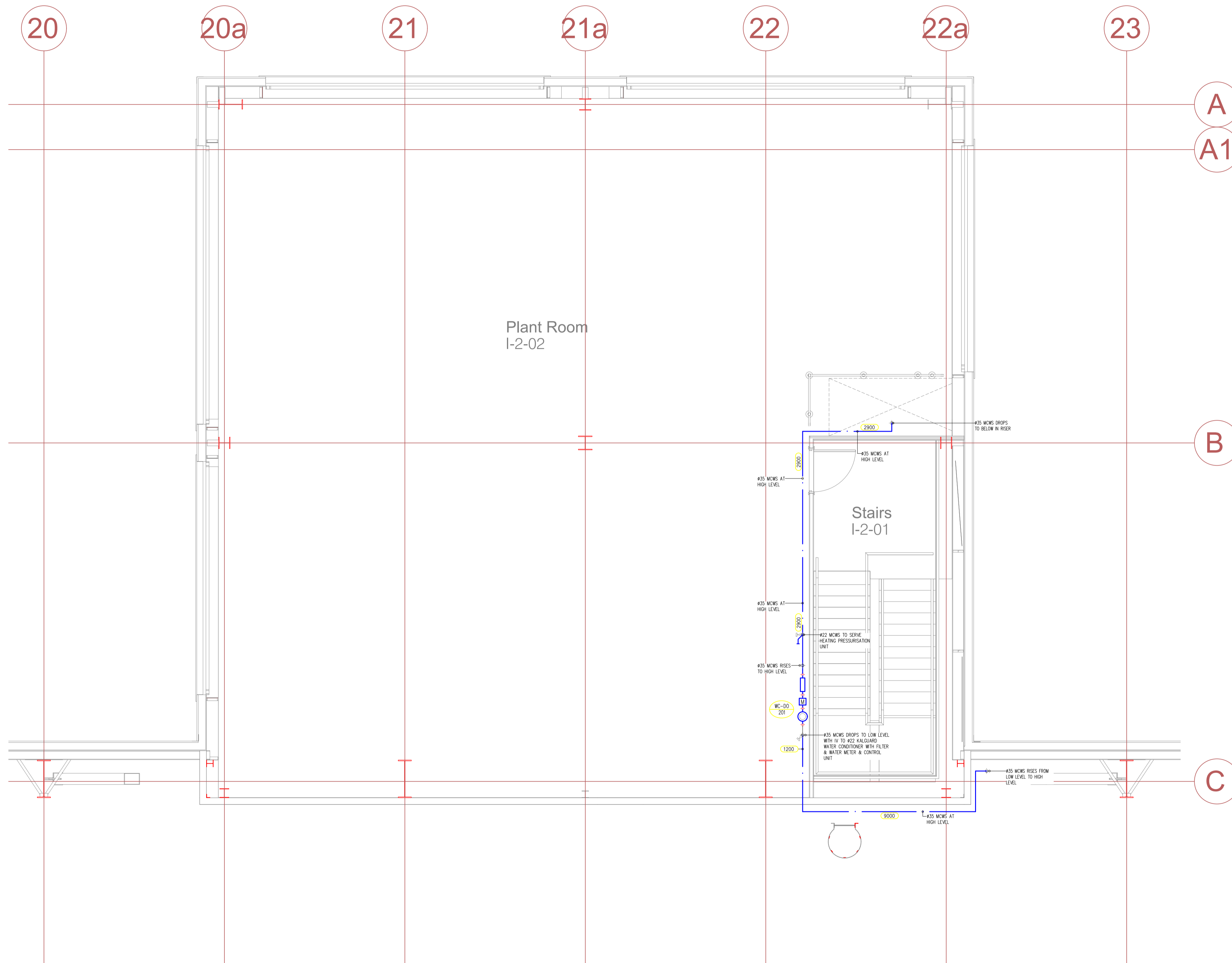
Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 First Floor Mechanical
 Services Wiring Layout**

Scale at A1: 1:50	Date: 10.02.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-D1-01-DR-M-0901	Rev: -			

AS FITTED



LEGEND

	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HWS HOT WATER SERVICE
	MCWS MAINS COLD WATER SERVICE
	RWS RAINWATER SERVICE
	IV ISOLATING VALVE
	PRV PRESSURE REDUCING VALVE
	LV LOCKSHIELD VALVE
	DCV DOUBLE CHECK VALVE
	TBV THERMAL BALANCING VALVE
	SV WATER SOLENOID VALVE
	BV BLENDING VALVE
	EV EXPANSION VESSEL
	PA PIPEWORK ANCHOR
	HC HEIGHT TO CENTRE

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 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

REV	DATE	DESCRIPTION	BY
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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 Second Floor Plant Deck
 Domestic Water Services
 Layout**

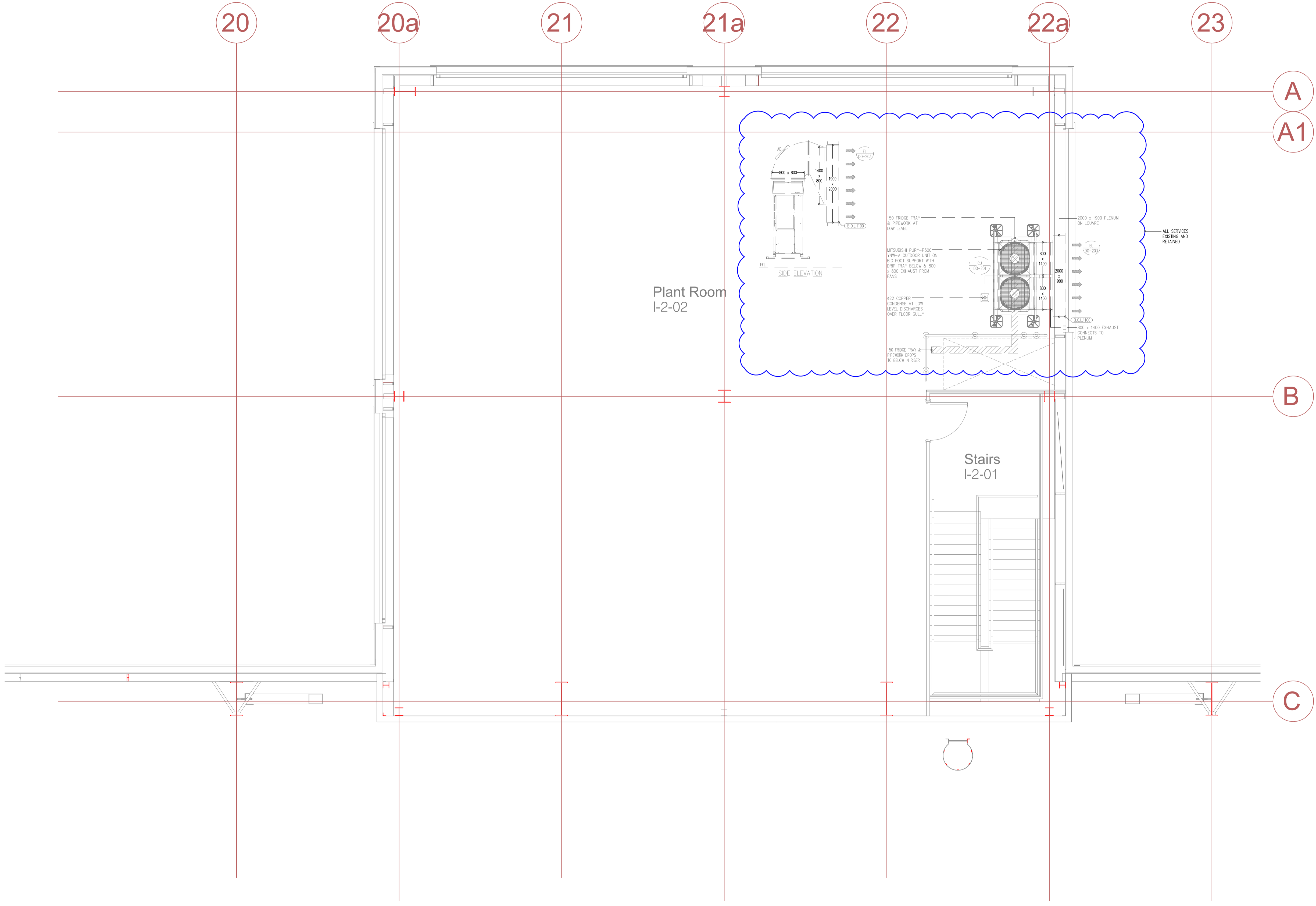
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1:50	10.02.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-D1-02-DR-M-0302			Rev:
				-

AS FITTED

AIR CONDITIONING OUTDOOR UNIT SCHEDULE													
REF NO	MAKE	TYPE	MODEL	SERVING	PIPE SIZE (Gas-Liquid-Discharge)	MAX VERTICAL RISE (m)	MAX EQLV LENGTH (m)	COOLING DUTY (kW)	HTG DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	ACCESSORIES	ELEC SUPPLY
CU-DO-201	MITSUBISHI	CITY MULTI HEAT RECOVERY VRF	PURY-P500YMW-A1	DISTRIBUTION OFFICE No. 1	28.6/22.2	40	165	50.1	63	1750x740x1858	337	1No CMB-M1012V (12 WAY) BS SOLENOID BOXES	415V 50Hz 3ph

- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved Retailer: B+ES, safe, REA

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

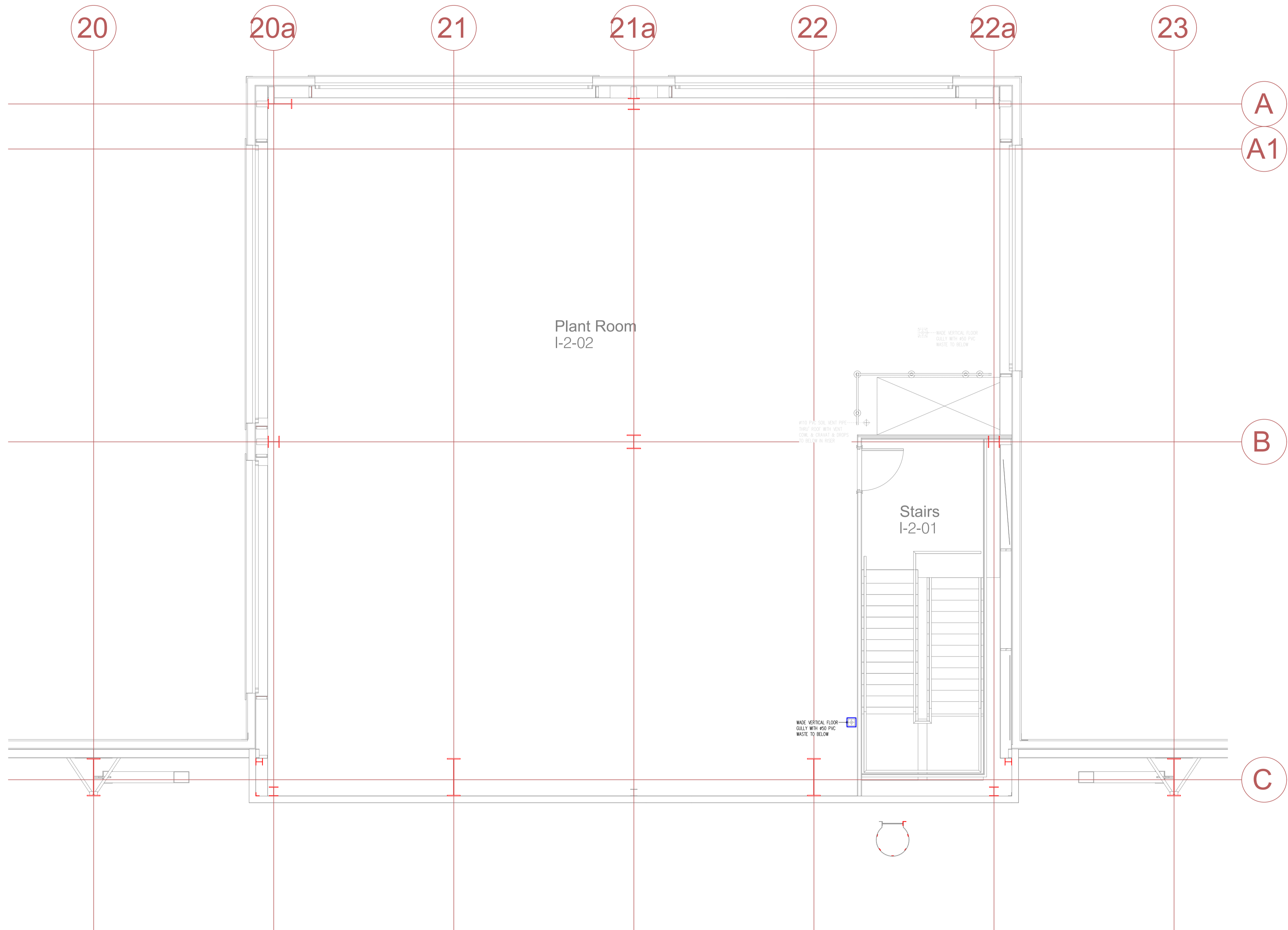
Title: **Distribution Office No. 1
 Second Floor Plant Deck
 VRF Heating & Cooling
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D1-02-DR-M-0402	-			

AS FITTED

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - SOIL PIPEWORK IS TERRAIN GREY UPVC. WASTE PIPEWORK IS TERRAIN WHITE UPVC.
 - ROOFING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.2M A.F.F.L.
 - MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS IPHE GUIDANCE.
 - FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	MIN 1:55
MULTIPLE WC	1:111 - 1:11



REV	DATE	DESCRIPTION	BY



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 Leicester
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 Web: www.wmbuildingservices.com



Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 1
 Second Floor Plant Deck
 Public Health Services
 Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D1-02-DR-M-0502	-

AS FITTED

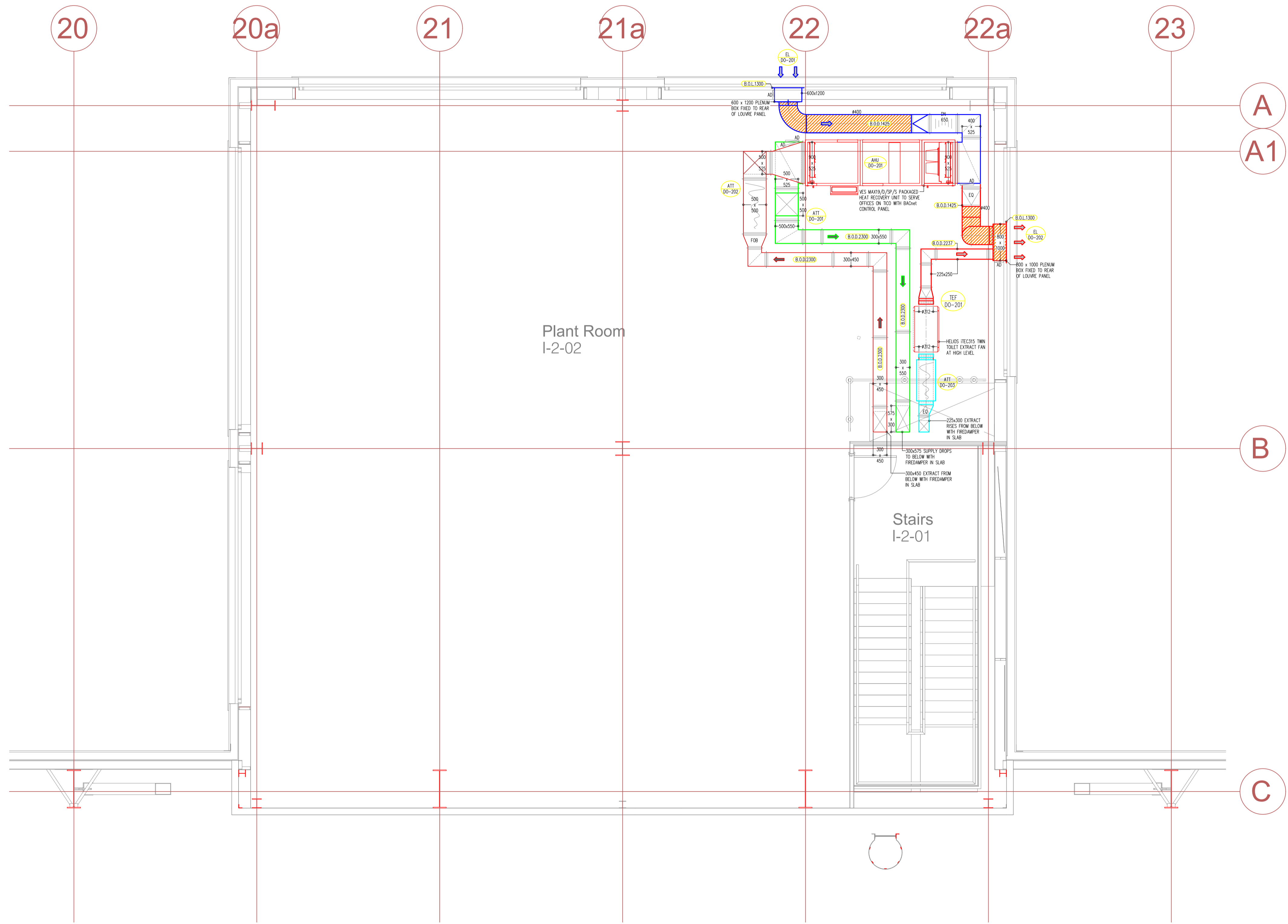
AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP W/(l/s)	POWER (W)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHU-DO-201	DISTRIBUTION OFFICES No. 1	VES ANDOVER	HEAT RECOVERY	MAX19/DISP/S	1.039 @ 275 Pa	0.816 @ 275 Pa	1.66	3.0 KW	3275x1000x1350	659	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BACnet LINK TO BMS	SUPPLY SIDE - MOTORISED INLET DAMPER/G4 PANEL FILTERS/F7 BAG FILTER/HEAT EXCHANGER/SINGLE SUPPLY FAN/ELECTRIC HEATER BATTERY +14.2/23.0/DISCHARGE SPINGOT EXTRACT SIDE - INLET SPINGOT/SINGLE EXTRACT FAN/HEAT EXCHANGER & FACE/BYPASS DAMPER/MOTORISED EXHAUST DAMPER	3ph - 415V - 50Hz

EXTRACT FAN SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	SFP W/(l/s)	CONTROL	FLC (A)	POWER (W)	ELEC. SUPPLY
TEF-DO-201	HELIOS	CENTRIFUGAL TWIN FAN	ITEC 315	0.324 @ 255 pa	0.5	FAN SPEED CONTROLLER, AUTO CHANGEOVER PANEL & BMS FAULT SIGNAL	2.8	0.48	230V 1Ph 50Hz

DISTRIBUTION OFFICE 1 ATTENUATOR SCHEDULE										
REF NO.	MAKE	TYPE	MODEL	SERVING	DESIGN FLOW (m³/s)	PRESS. LOSS (Pa)	TARGET NR	LENGTH (mm)	CONN. SIZE (mm)(WxH)	WEIGHT (kg)
ATT-DO-201	ALLAWAY	RECTANGULAR	SLGE	AHU-DO-201 SUPPLY	1.039	30	38	1200	500x500	42
ATT-DO-202	ALLAWAY	RECTANGULAR	SLGE	AHU-DO-201 EXTRACT	0.816	30	38	1200	500x500	42
ATT-DO-203	ALLAWAY	RECTANGULAR	SLGE	TEF-DO-201 TOILET EXTRACT	0.324	30	38	900	315 DIA	12.2

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved installers: B-ES, SIFE, REA

Project: **The RANGE**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

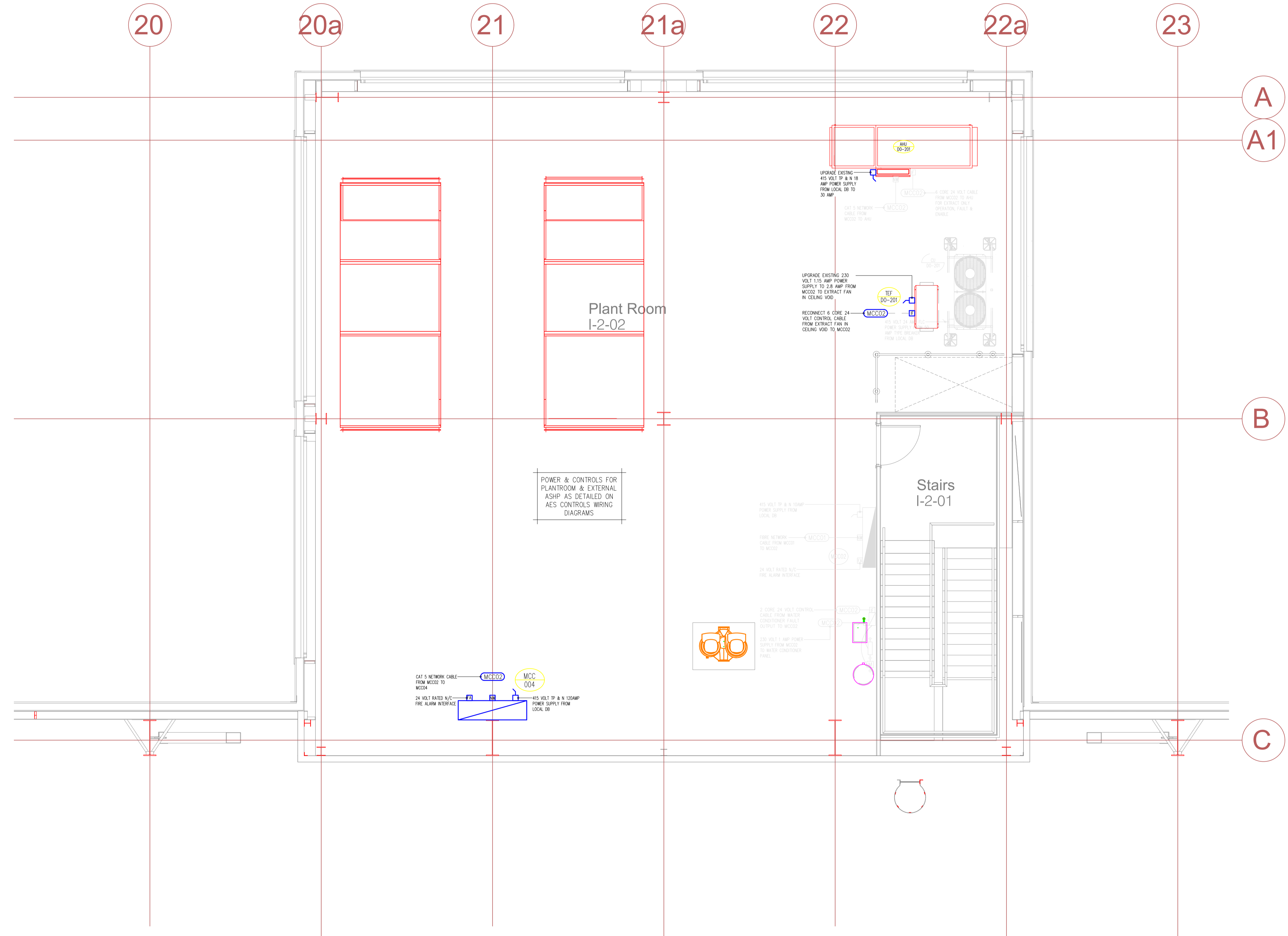
Title: **Distribution Office No. 1
 Second Floor Plant Deck
 Ventilation Services
 Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	11.03.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D1-02-DR-M-0602	-			

AS FITTED

NOTES

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3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS



REV	DATE	DESCRIPTION	BY



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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

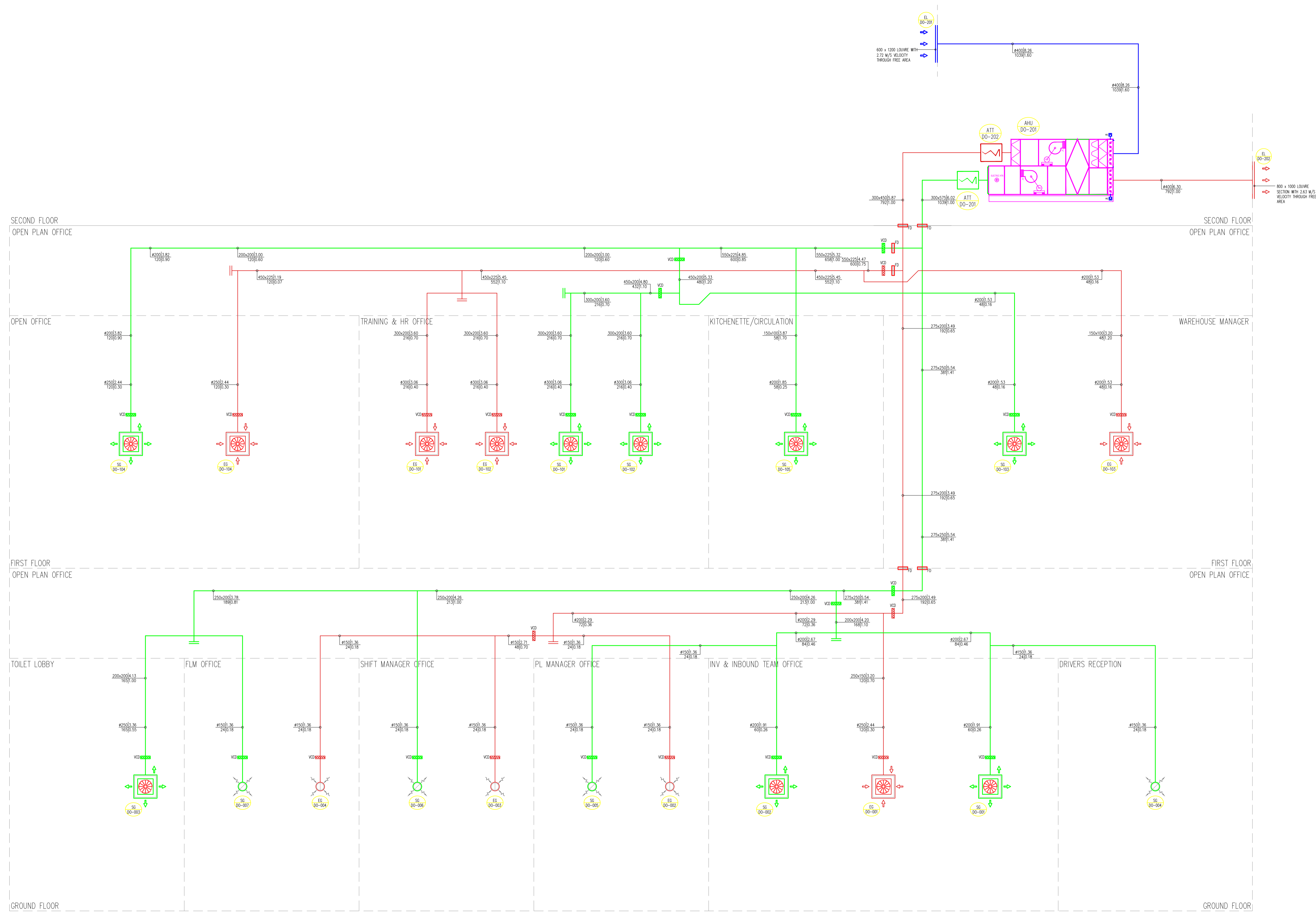
Title:
**Distribution Office No. 1
 Second Floor Plant Deck
 Mechanical Services
 Wiring Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D1-02-DR-M-0902	-

AS FITTED

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 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 6. ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



DIS OFFICE 1 - INBOUND

REV	DATE	DESCRIPTION	BY
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WM BUILDING SERVICES

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 Leicester
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Approved Retailer: B+ES, SIFE, REA

Project: **The Range**
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

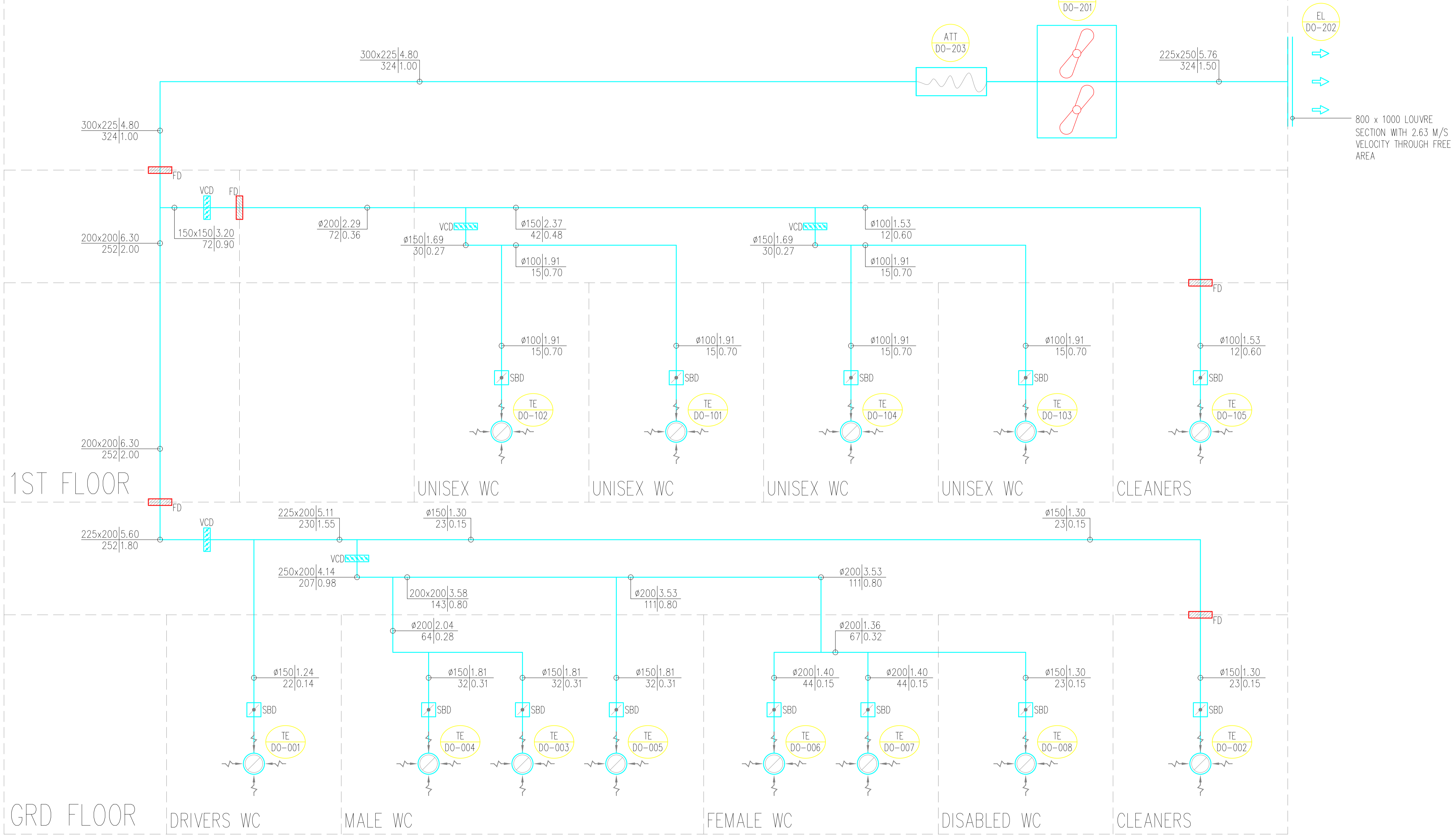
Client: **winvic**

Title: **Distribution Office No. 1
 Inbound Primary
 Ventilation Schematic**

Scale at A1: n.t.s	Date: 08.24.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-D1-ZZ-DR-M-0100				Rev: -

AS FITTED

2ND FLOOR PLANT DECK



- NOTES**
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800 x 1000 LOUVRE SECTION WITH 2.63 M/S VELOCITY THROUGH FREE AREA

1ST FLOOR

GRD FLOOR

DIS OFFICE 1 - INBOUND

REV	DATE	DESCRIPTION	BY

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 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
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 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES, ISO 9001, ISO 14001, REA

Project: **The RANGE**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 1
 Inbound Toilet Extract
 Ventilation Schematic**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
n.t.s	08.24.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-D1-ZZ-DR-M-0102** Rev: -

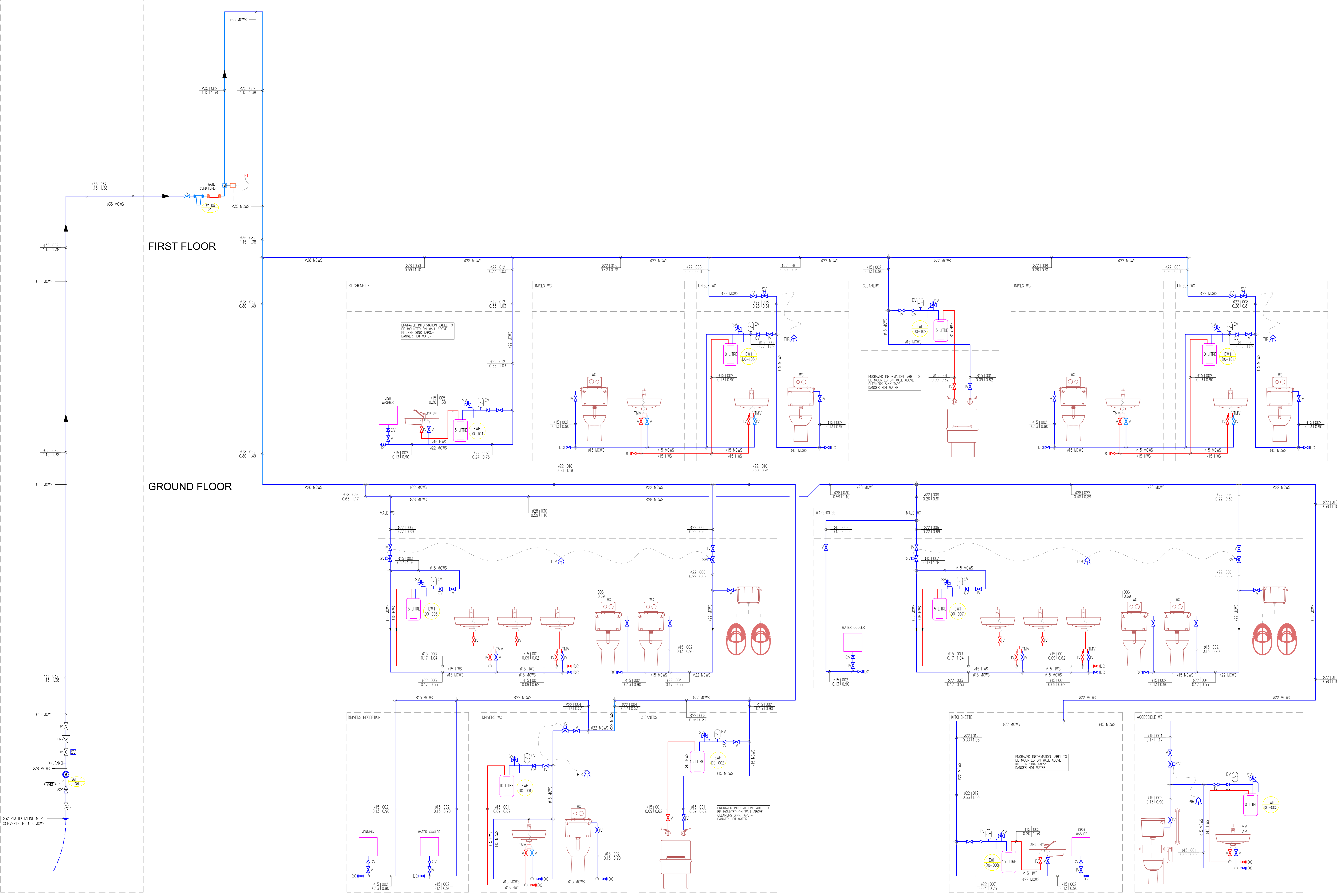
AS FITTED

WAREHOUSE

SECOND FLOOR PLANT DECK

FIRST FLOOR

GROUND FLOOR



DIS OFFICE 1 - INBOUND

- NOTES**
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 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCHS & FWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- SIZING KEY**
- DIA LU
L/S VEL
- LEGEND**
- HWS HOT WATER SERVICE
 - MCHS MAINS COLD WATER SERVICE
 - BCHS BOOSTED COLD WATER SERVICE
 - IV ISOLATING VALVE
 - SV WRAS APPROVED SOLENOID VALVE
 - DRV DOUBLE REGULATING VALVE
 - DCV DOUBLE CHECK VALVE
 - TBV THERMAL BALANCING VALVE
 - BV BLENDING VALVE
 - WHV WATER HEATER SAFETY VALVE
 - WEV WATER HEATER EXP VESSEL
 - DOV DRAIN OFF VALVE
 - SCV SINGLE CHECK VALVE
 - PRV PRESSURE REDUCING VALVE
 - WML WATER METER LINKED TO BMS
 - PRD PIR DETECTOR

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----



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Client:
winvic

Title:
 Distribution Office 1
 Inbound Domestic Water
 Services Schematic

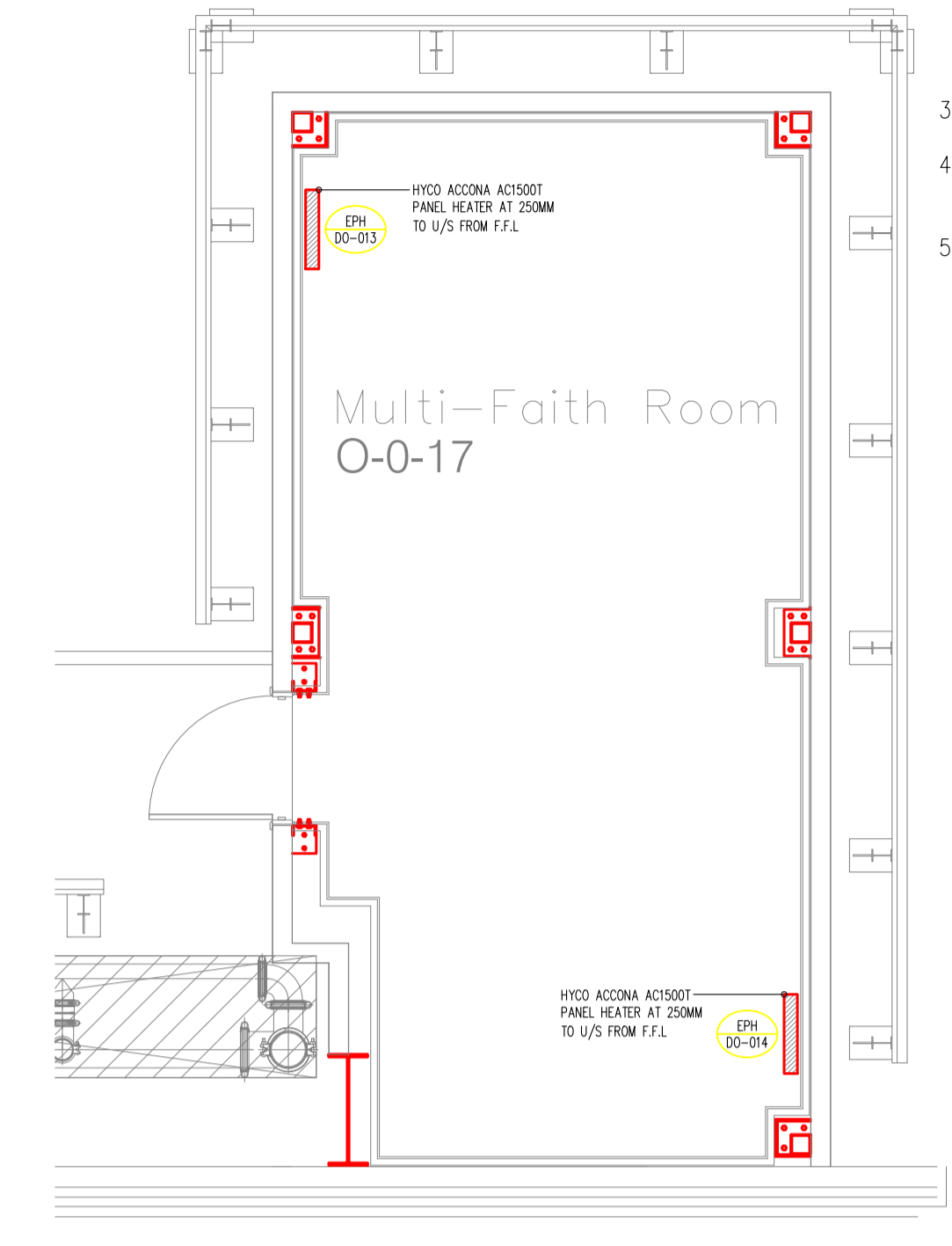
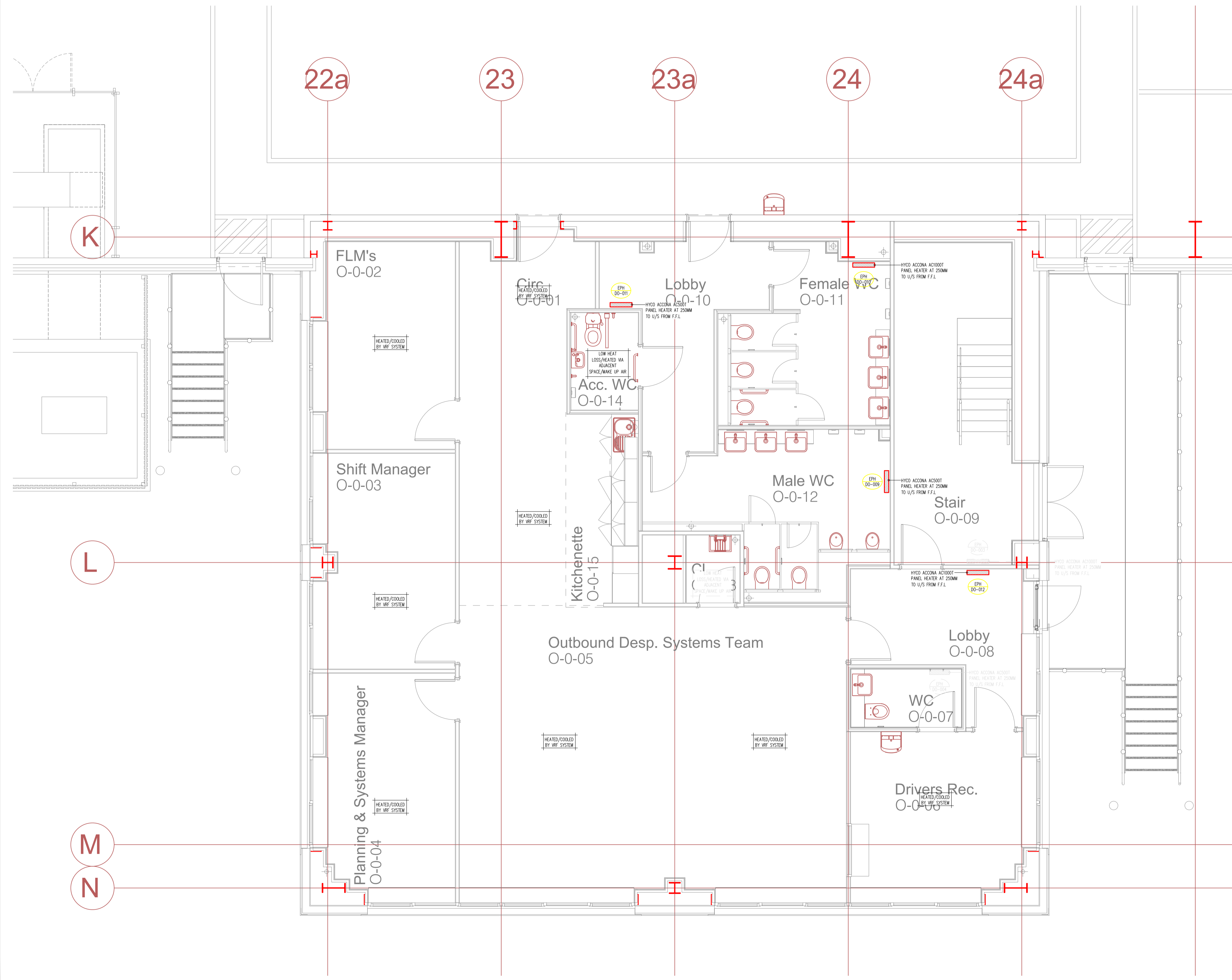
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m.t.s	19-04-24	L.S	L.S	J.M

Drawing No: P23027-WMB-DO-ZZ-DR-M-0108

AS FITTED

ELECTRIC HEATER SCHEDULE											
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	PORTENT (mm)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-DO-003	HYCO	ACCONA	AC500T	GF UNISEX WC	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-004	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-009	HYCO	ACCONA	AC500T	GF MALE WC	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-010	HYCO	ACCONA	AC1000T	GF FEMALE WC	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-011	HYCO	ACCONA	AC500T	GF WC LOBBY	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-012	HYCO	ACCONA	AC1000T	GF LOBBY	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-013	HYCO	ACCONA	AC1500T	MULTI FAITH ROOM	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-DO-014	HYCO	ACCONA	AC1500T	MULTI FAITH ROOM	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-DO-102	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-105	HYCO	ACCONA	AC1000T	FF KITCHENETTE	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-106	HYCO	ACCONA	AC500T	FF WC LOBBY	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz

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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS



REV	DATE	DESCRIPTION	BY



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Project:
The RANGE
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 2
 Ground Floor Electric
 Heating Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No: P23027-WMB-D2-00-DR-M-0202 Rev: -

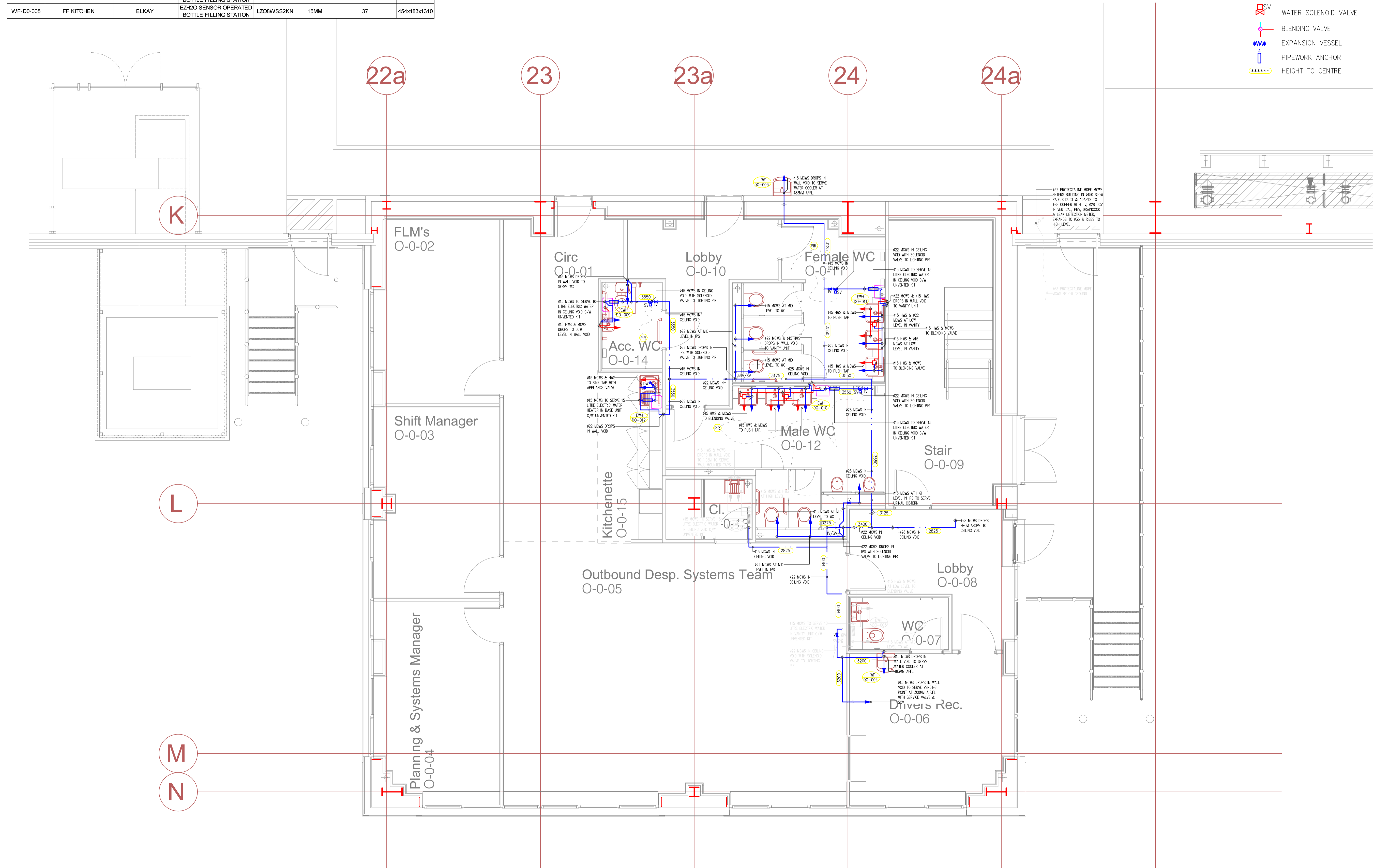
AS FITTED

ELECTRIC WATER HEATER SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	ELEC. SUPPLY
EWH-DO-003	HYCO	SPEEDFLOW	SFK 10	GF UNISEX	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-004	HYCO	SPEEDFLOW	SFK 15	GF CLEANERS	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-009	HYCO	SPEEDFLOW	SFK 10	GF DISABLED WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-010	HYCO	SPEEDFLOW	SFK 15	GF MALE WC	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-011	HYCO	SPEEDFLOW	SFK 15	GF FEMALE WC	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-012	HYCO	SPEEDFLOW	SFK 15	GF TEA POINT	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-105	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-106	HYCO	SPEEDFLOW	SFK 15	FF CLEANERS	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-107	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-108	HYCO	SPEEDFLOW	SFK 15	FF TEA POINT	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz

WATER COOLERS							
REF NO.	LOCATION	MAKE	TYPE	MODEL	CONN. (mm)	CAPACITY (L/HOUR)	DIM WxLxH
WF-DO-003	WAREHOUSE	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310
WF-DO-004	GF DRIVERS RECEPTION	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310
WF-DO-005	FF KITCHEN	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310

LEGEND	
	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HWS HOT WATER SERVICE
	MCWS MAINS COLD WATER SERVICE
	RWS RAINWATER SERVICE
	IV ISOLATING VALVE
	PRV PRESSURE REDUCING VALVE
	LKV LOCKSHIELD VALVE
	DCV DOUBLE CHECK VALVE
	TBV THERMAL BALANCING VALVE
	SV WATER SOLENOID VALVE
	BV BLENDING VALVE
	EV EXPANSION VESSEL
	A PIPEWORK ANCHOR
	H HEIGHT TO CENTRE

- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
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 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

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 657 Melton Road
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 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9527
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved installers: B-ES, SAFE, REA

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 2
 Ground Floor Domestic
 Water Services Layout**

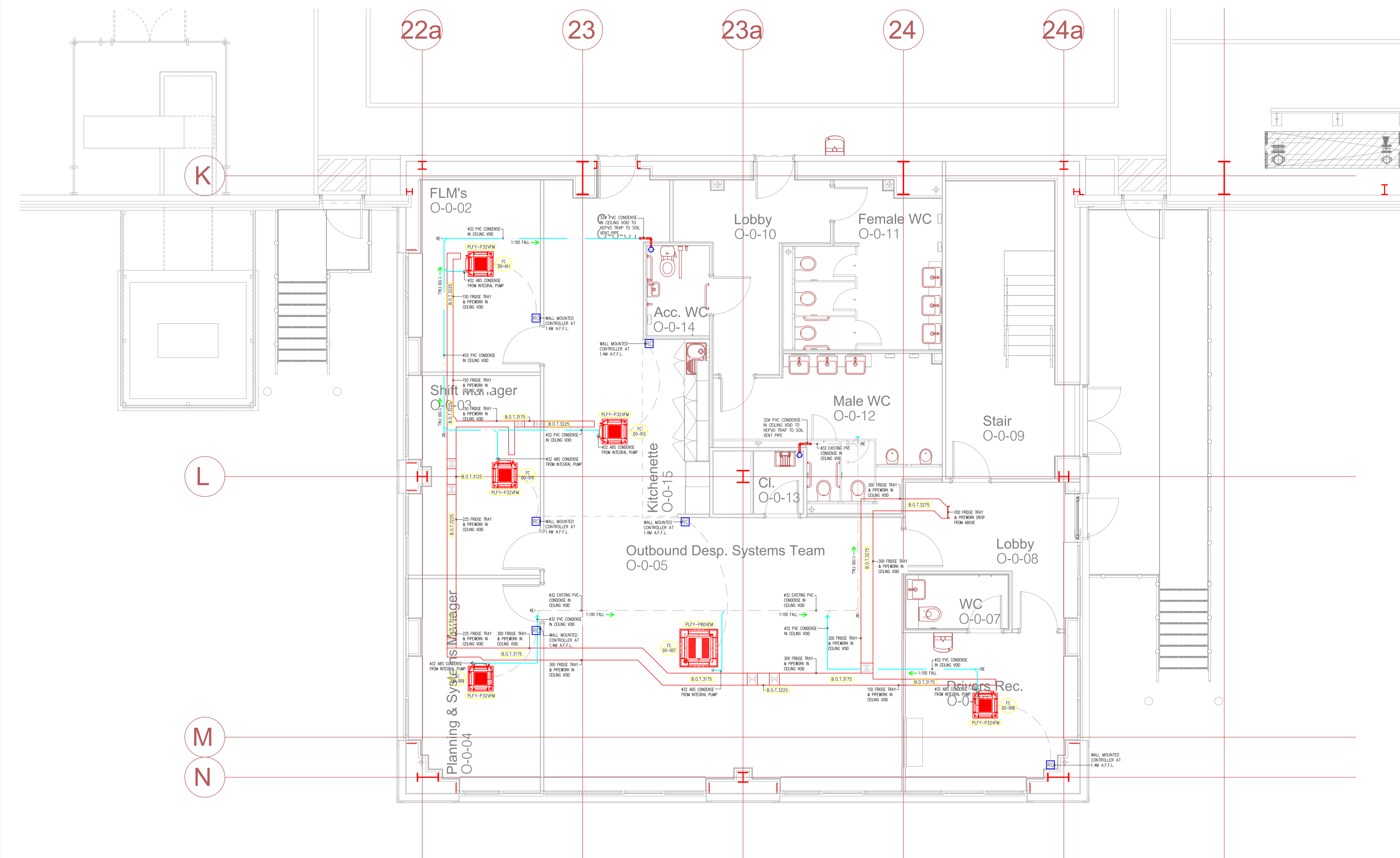
Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-D2-00-DR-M-0303			
Rev:	-			

AS FITTED

AIR CONDITIONING INDOOR UNIT SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING / LOCATION	PIPE SIZE (Gas)	TOTAL COOLING	SENSIBLE COOLING	HTG. DUTY	OVERALL SIZE	WEIGHT	CONTROL	ELEC SUPPLY
FCU-D0-007	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	GF OUTBOUND DESP TEAM	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-008	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF DRIVERS RECEPTION	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-009	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF PL. MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-010	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF SHIFT MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-011	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF FLM OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-012	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VFM-E	GF TEA POINT/CIRCULATION	12.7mm - 6.35mm	5	3.6	6.3	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-105	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	FF OFFICE	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-106	DAIKIN	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	FF OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-107	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	FF OFFICE SPACE	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-108	DAIKIN	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	FF DRIVERS RECEPTION	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER
RETAINED EXISTING SERVICES SHOWN HATCHED	



Outbound Office // Ground Floor Plan

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
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 LE4 8EB
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 Fax: (0116) 260 9527
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 Web: www.wmbuildingservices.com

Project: The Range Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: winvic

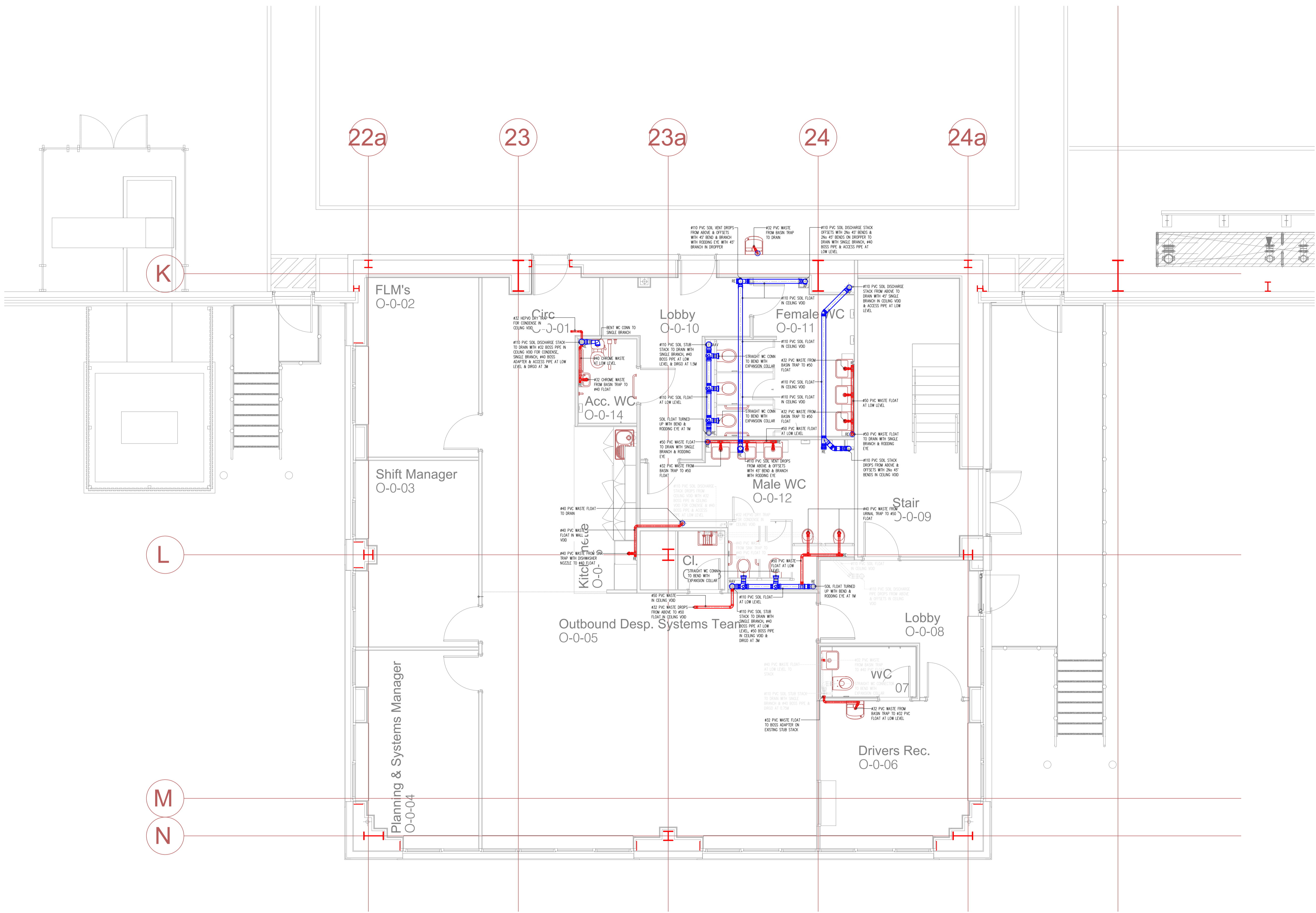
**Title: Distribution Office No. 2
 Ground Floor VRF Heating
 & Cooling Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D2-00-DR-M-0403	-			

AS FITTED

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- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
- SOIL PIPEWORK IS TERRAIN GREY UPVC. WASTE PIPEWORK IS TERRAIN WHITE UPVC.
- RODDING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.2M A.F.F.L.
- MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS PER GUIDANCE.
- FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	1:55
MULTIPLE WC	1:11 - 1:11



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Project: **The RANGE**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

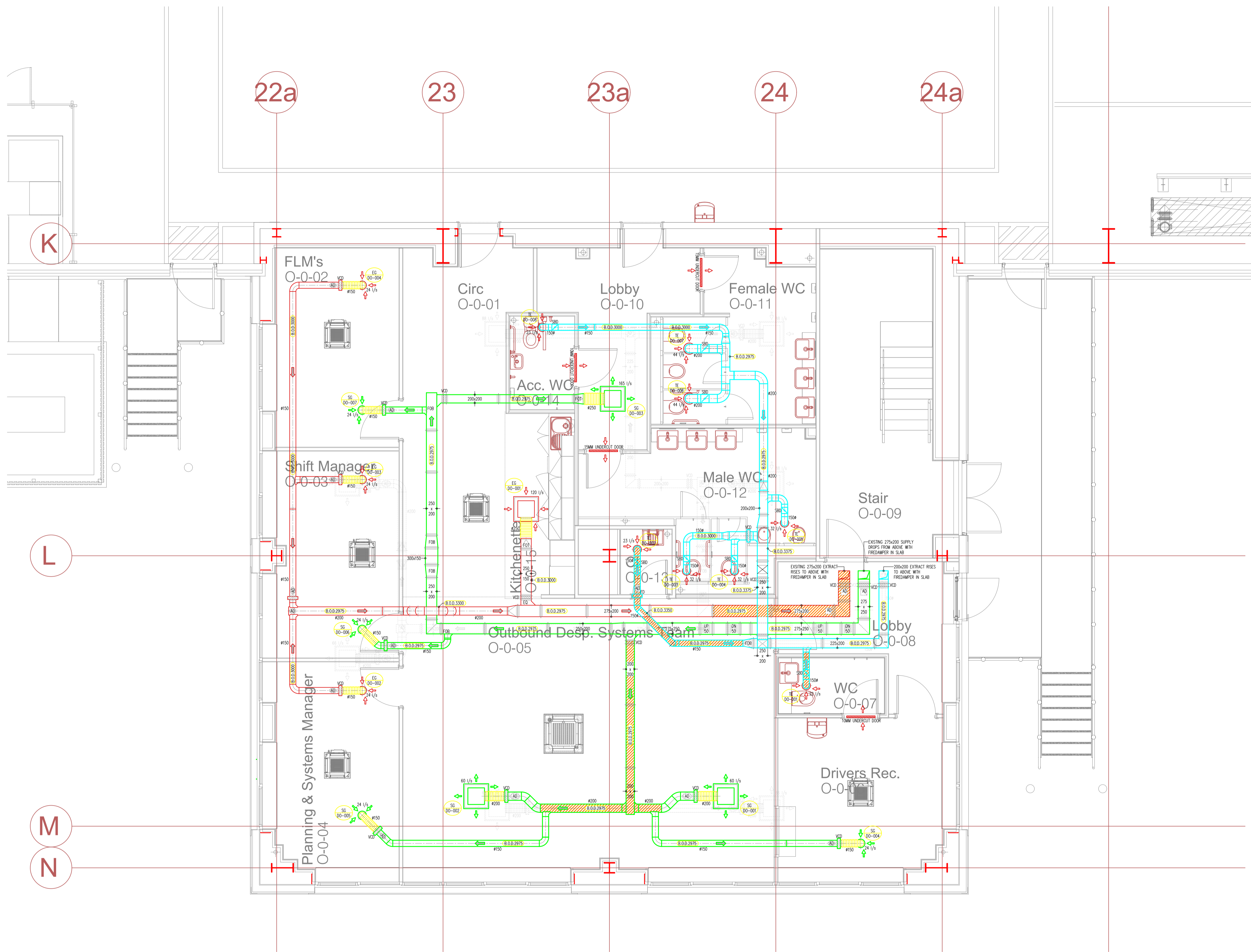
Title: **Distribution Office No. 2
 Ground Floor Public
 Health Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D2-00-DR-M-0503	-

AS FITTED

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED



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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH

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BES
 SAFE
 APPROVED INSTALLER
 REA

Project:

The RANGE
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

Client:

winvic

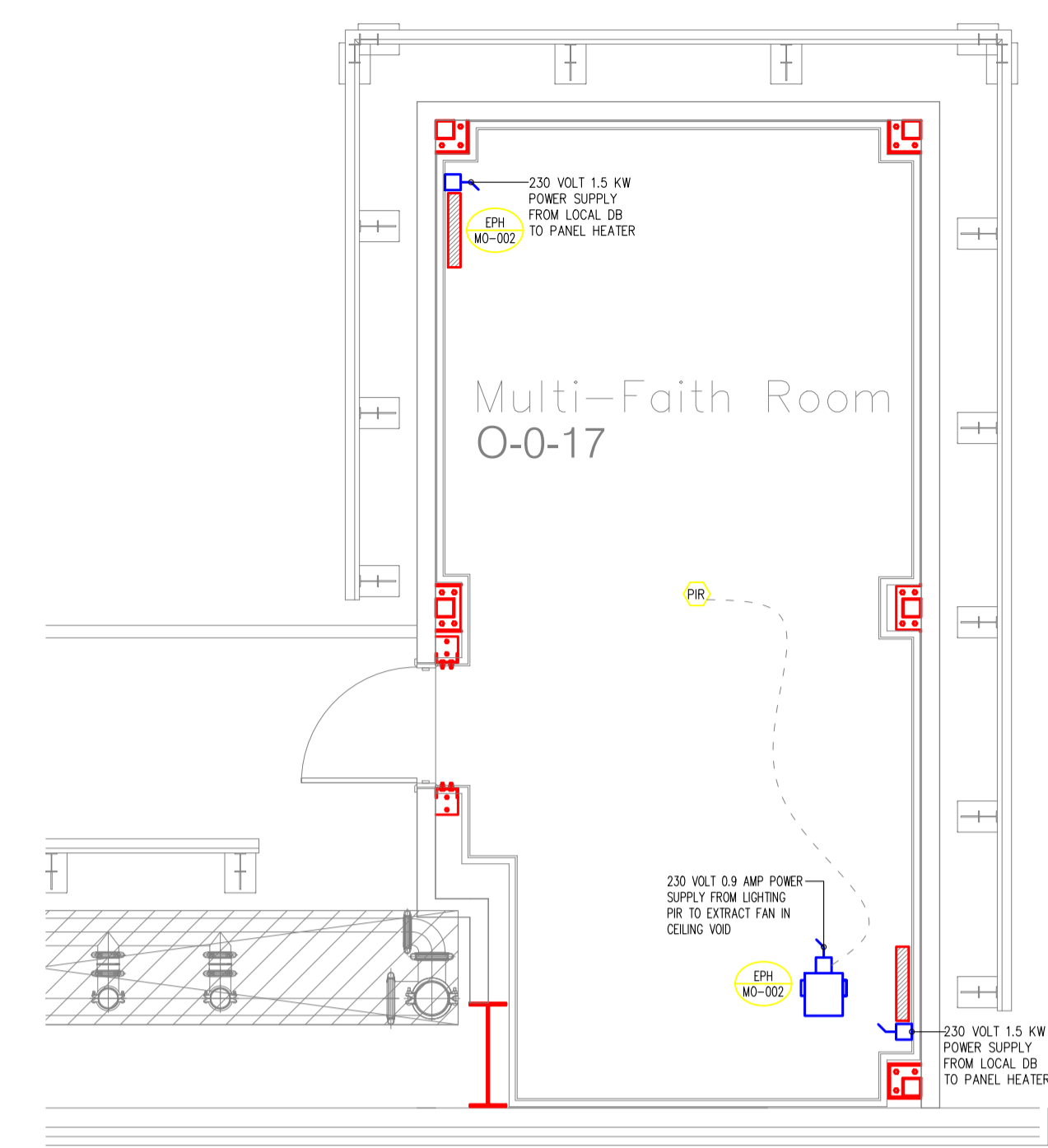
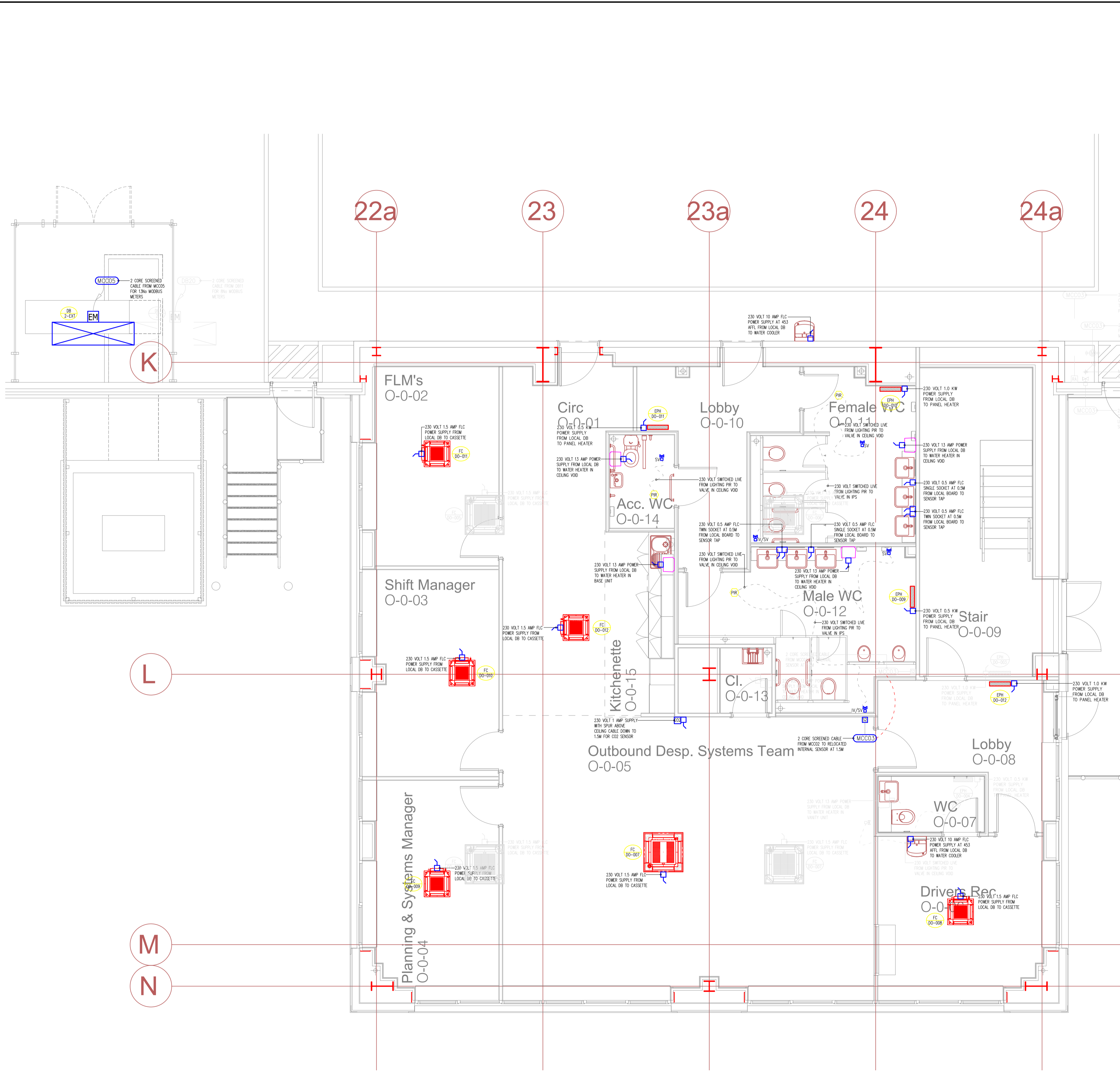
Title:

**Distribution Office No. 2
 Ground Floor Ventilation
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D2-00-DR-M-0603	-			

AS FITTED

Outbound Office // Ground Floor Plan



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 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS

Outbound Office // Ground Floor Plan

REV	DATE	DESCRIPTION	BY
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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

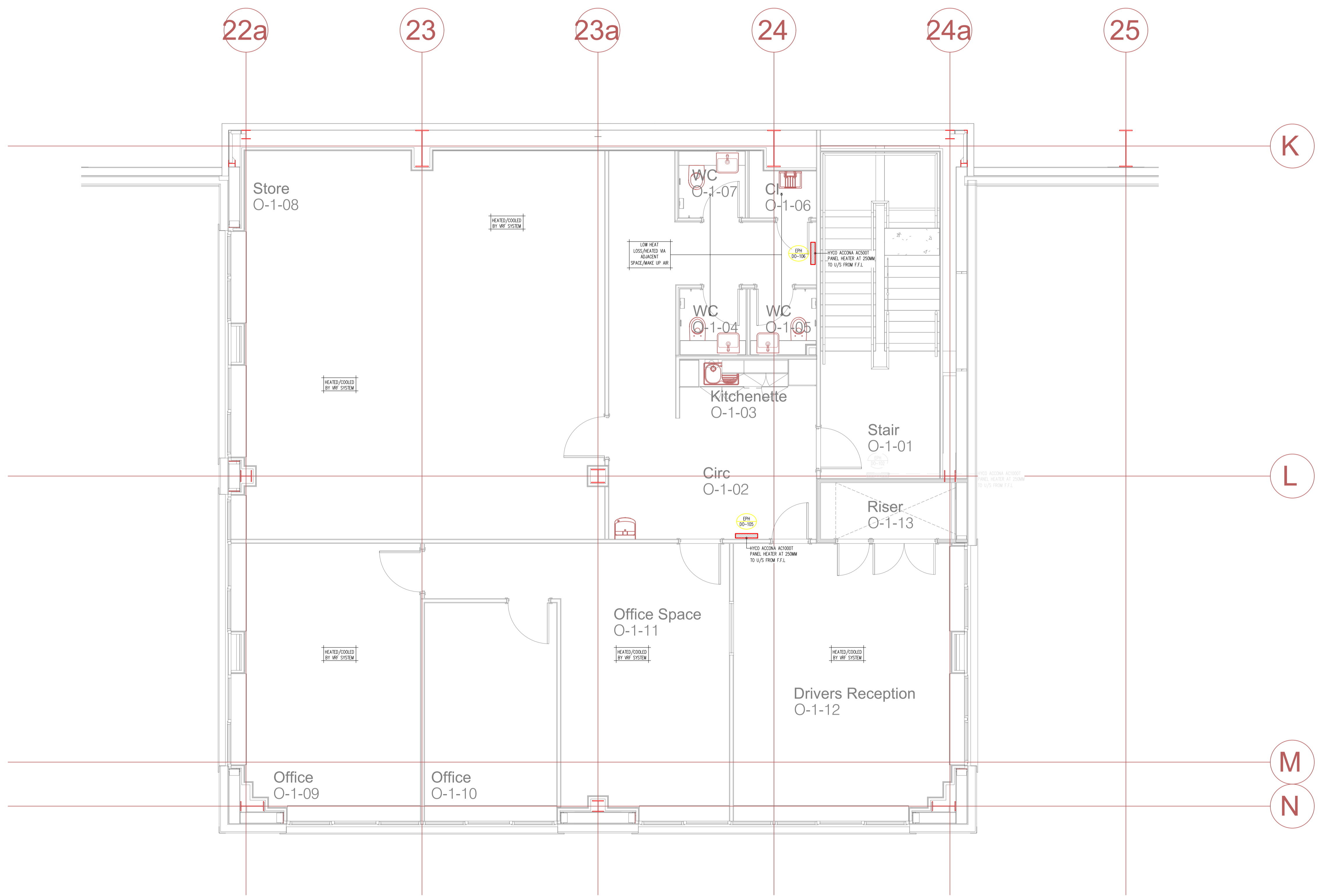
Title:
**Distribution Office No. 2
 Ground Floor Mechanical
 Services Wiring Layout**

Scale at A1: 1:50	Date: 10.02.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-D2-00-DR-M-0903	Rev: -			

AS FITTED

ELECTRIC HEATER SCHEDULE											
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-DO-003	HYCO	ACCONA	AC500T	GF UNISEX WC	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-004	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-009	HYCO	ACCONA	AC500T	GF MALE WC	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-010	HYCO	ACCONA	AC1000T	GF FEMALE WC	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-011	HYCO	ACCONA	AC500T	GF WC LOBBY	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-DO-012	HYCO	ACCONA	AC1000T	GF LOBBY	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-013	HYCO	ACCONA	AC1500T	MULTI FAITH ROOM	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-DO-014	HYCO	ACCONA	AC1500T	MULTI FAITH ROOM	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-DO-102	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-105	HYCO	ACCONA	AC1000T	FF KITCHENETTE	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-DO-106	HYCO	ACCONA	AC500T	FF WC LOBBY	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz

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 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS



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Project:



The Range
Home, Leisure & Garden

PLOT 4000 STOWMARKET

Client:



winvic

Title:

**Distribution Office No. 2
First Floor Electric Heating
Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No: P23027-WMB-D2-01-DR-M-0203

Rev: -

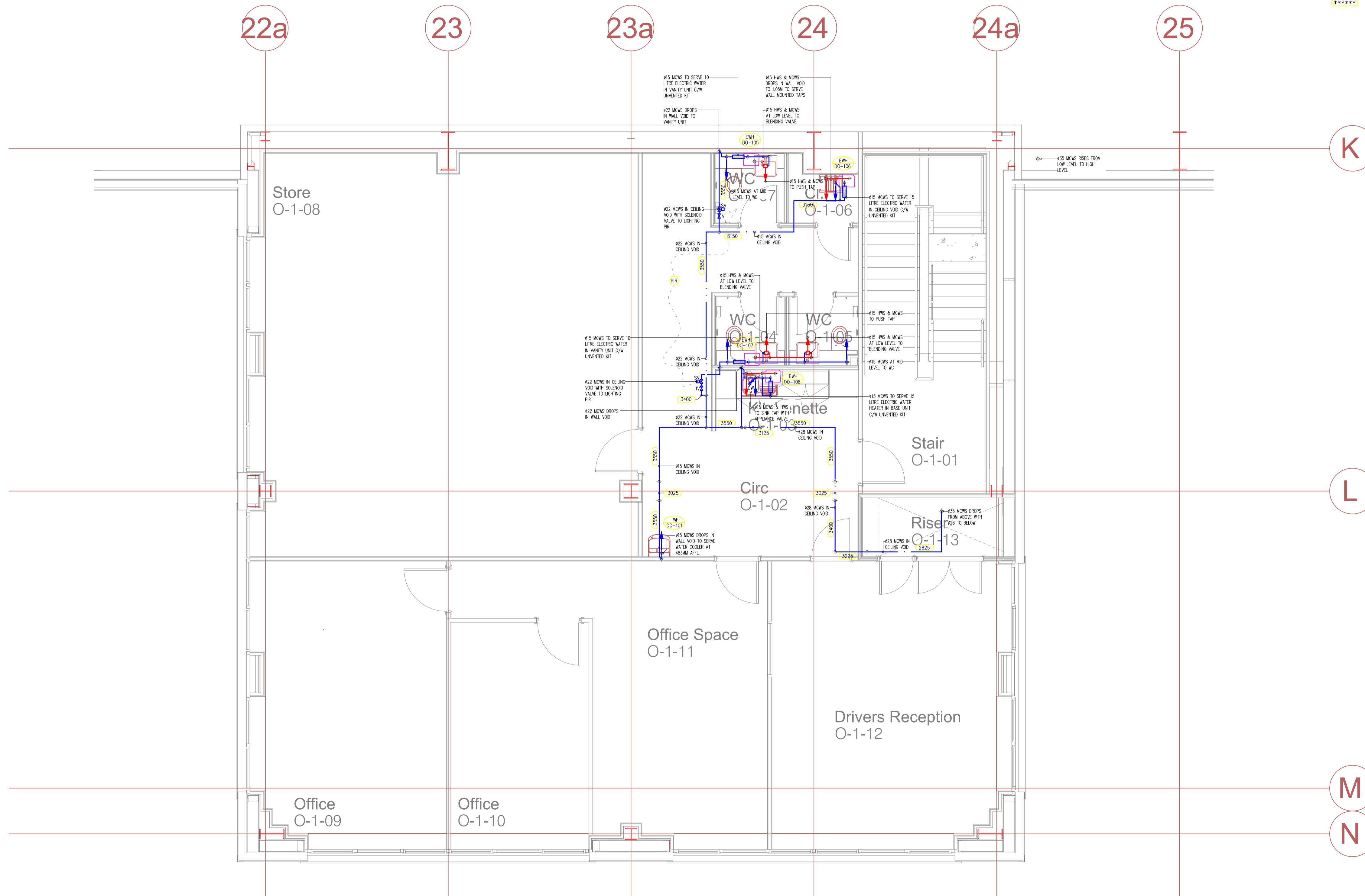
AS FITTED

ELECTRIC WATER HEATER SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	ELEC. SUPPLY
EWH-DO-003	HYCO	SPEEDFLOW	SFK 10	GF LINSEX	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-004	HYCO	SPEEDFLOW	SFK 15	GF CLEANERS	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-009	HYCO	SPEEDFLOW	SFK 10	GF DISABLED WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-010	HYCO	SPEEDFLOW	SFK 15	GF MALE WC	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-011	HYCO	SPEEDFLOW	SFK 15	GF FEMALE WC	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-012	HYCO	SPEEDFLOW	SFK 15	GF TEA POINT	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-105	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-106	HYCO	SPEEDFLOW	SFK 15	FF CLEANERS	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-107	HYCO	SPEEDFLOW	SFK 10	FF WC	2000	410Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz
EWH-DO-108	HYCO	SPEEDFLOW	SFK 15	FF TEA POINT	2000	530Hx310Wx280D	ELEC	SF7 KIT	230V 1Ph 50Hz

WATER COOLERS							
REF NO.	LOCATION	MAKE	TYPE	MODEL	CONN. (mm)	CAPACITY (L/HOUR)	DIM WxLxH
WF-DO-003	WAREHOUSE	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310
WF-DO-004	GF DRIVERS RECEPTION	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310
WF-DO-005	FF KITCHEN	ELKAY	EZH2O SENSOR OPERATED BOTTLE FILLING STATION	LZ08WSS2KN	15MM	37	454x483x1310

LEGEND	
	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HWS HOT WATER SERVICE
	MCWS MAINS COLD WATER SERVICE
	RWS RAINWATER SERVICE
	ISOLATING VALVE
	PRESSURE REDUCING VALVE
	LOCKSHIELD VALVE
	DOUBLE CHECK VALVE
	TB/TBV THERMAL BALANCING VALVE
	SV WATER SOLENOID VALVE
	BLENDED VALVE
	EXPANSION VESSEL
	PIPEWORK ANCHOR
	HEIGHT TO CENTRE

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 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.



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Project: The Range Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: winvic

**Title: Distribution Office No. 2
 First Floor Domestic Water
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

Drawing No: P23027-WMB-D2-01-DR-M-0304

AS FITTED

AIR CONDITIONING INDOOR UNIT SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING / LOCATION	PIPE SIZE (Gas)	TOTAL COOLING	SENSIBLE COOLING	HTG. DUTY	OVERALL SIZE	WEIGHT	CONTROL	ELEC SUPPLY
FCU-D0-007	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M60VEM-E	GF OUTBOUND DESP TEAM	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-008	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF DRIVERS RECEPTION	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-009	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF PL. MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-010	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF SHIFT MANAGER	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-011	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	GF FLM OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-012	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VFM-E	GF TEA POINT/CIRCULATION	12.7mm - 6.35mm	5	3.6	6.3	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-105	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	FF OFFICE	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-106	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M32VFM-E	FF OFFICE	12.7mm - 6.35mm	3.2	2.4	4.0	245x570x570	15	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-107	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M63VEM-E	FF OFFICE SPACE	15.9mm - 9.5mm	6.4	4.9	8.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz
FCU-D0-108	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M60VEM-E	FF DRIVERS RECEPTION	15.9mm - 9.5mm	8.1	6.2	10.0	258x840x840	21	PAR-40MAA	230V-1Ph-50Hz

- NOTES**
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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



Outbound Office // First Floor

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmeston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 2
 First Floor VRF Heating &
 Cooling Services Layout**

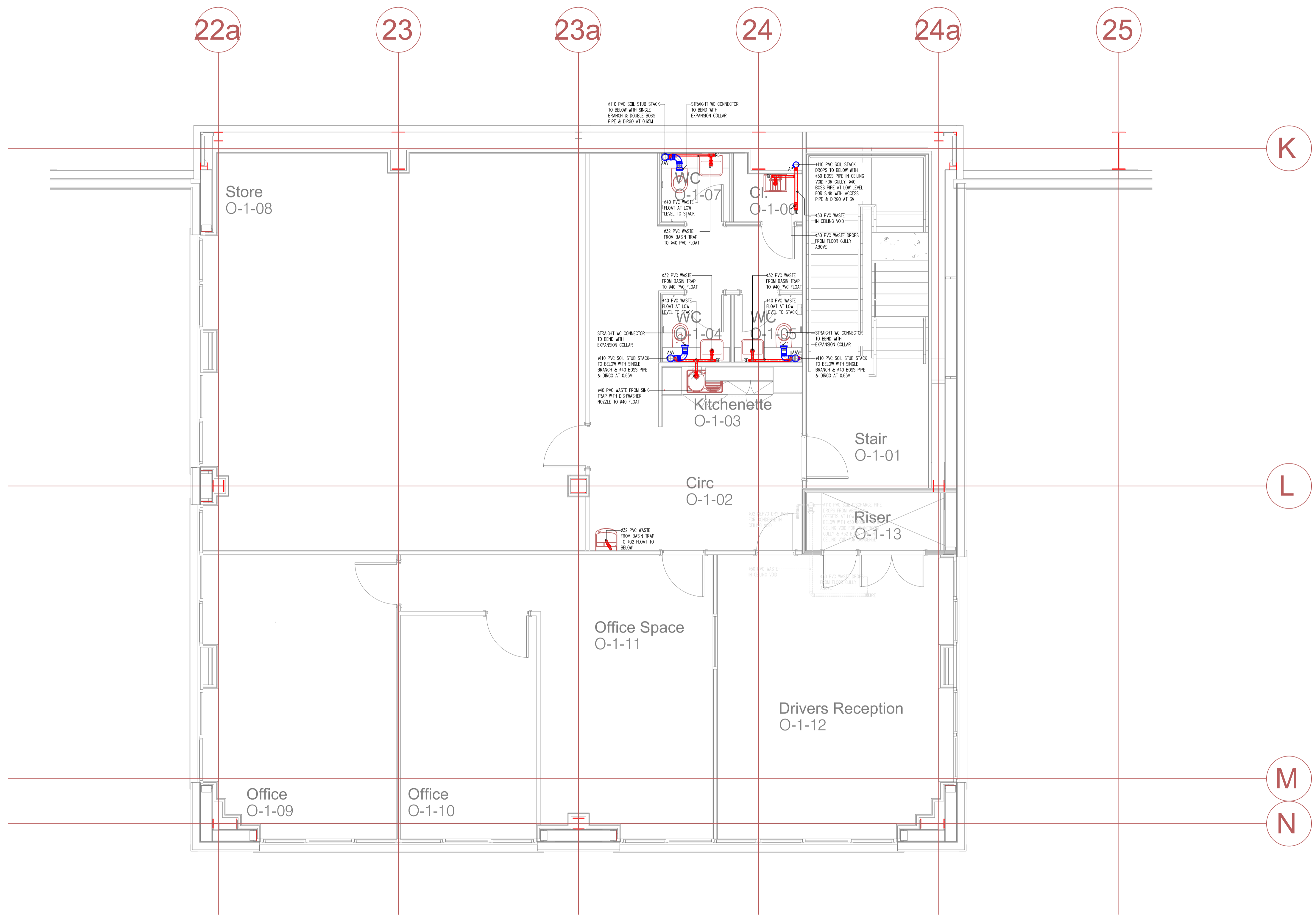
Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-D2-01-DR-M-0404	-

AS FITTED

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - SOIL PIPEWORK IS TERRAZON GREY UPVC. WASTE PIPEWORK IS TERRAZON WHITE UPVC.
 - RODDING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.2M A.F.F.L.
 - MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS IPHE GUIDANCE.
 - FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	MIN 1:55
MULTIPLE WC	1:111 - 1:11



REV	DATE	DESCRIPTION	BY



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Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

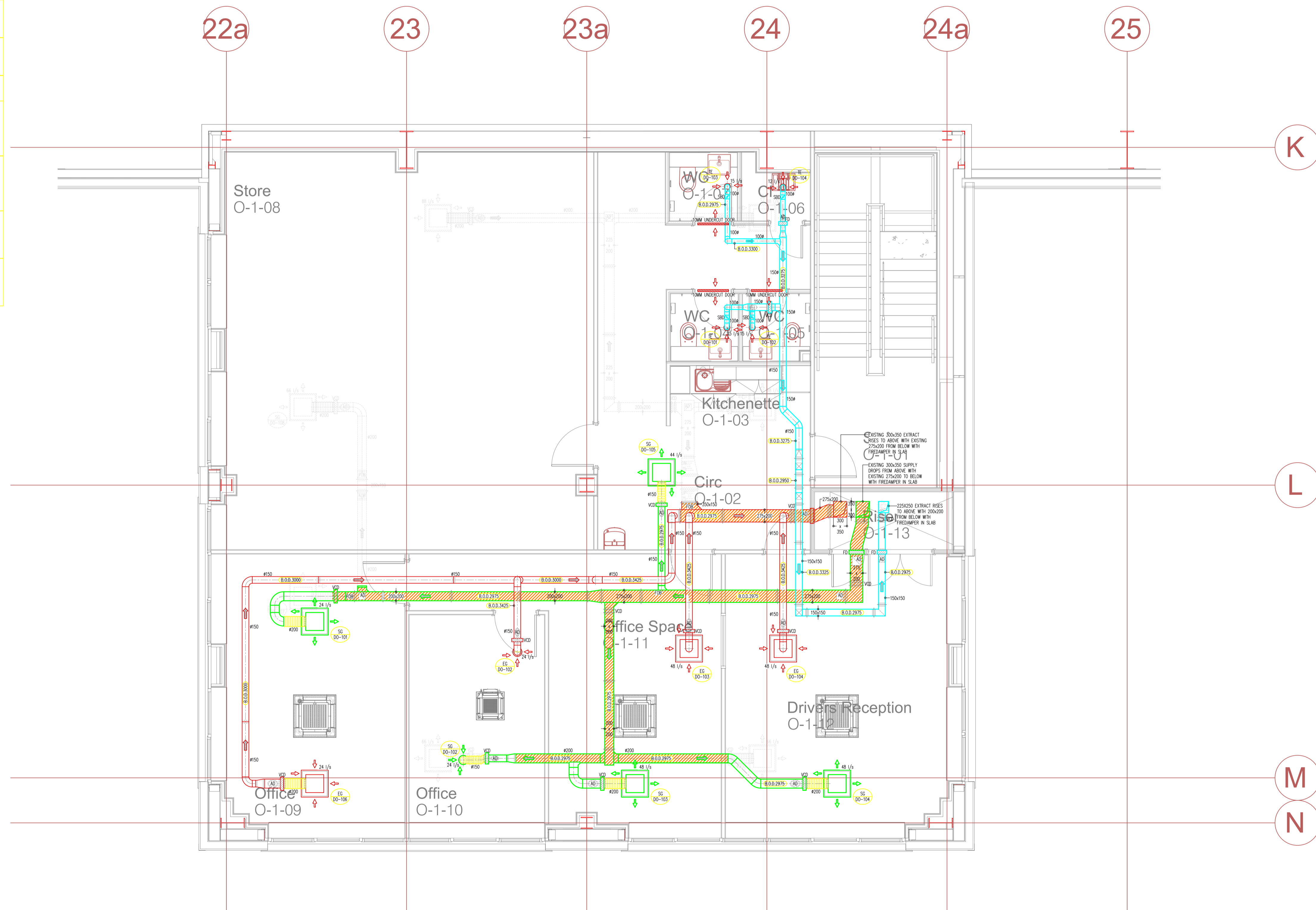
Client:
winvic

Title:
**Distribution Office No. 2
 First Floor Public Health
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D2-01-DR-M-0504	-			

AS FITTED

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED



Outbound Office // First Floor

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

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 Web: www.wmbuildingservices.com

BES, SAFE, REA logos.

Project: **The RANGE**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

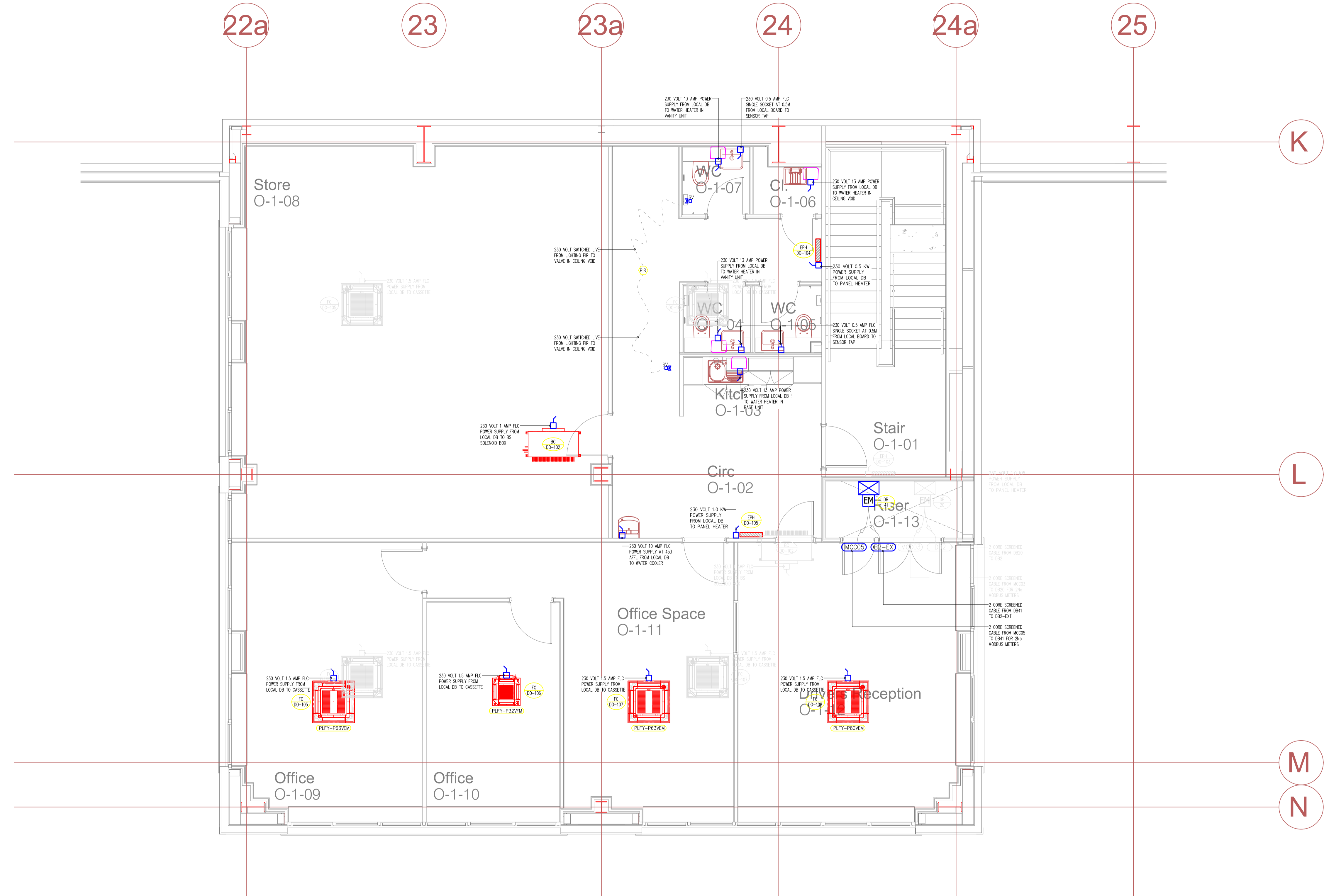
Client: **winvic**

Title: **Distribution Office No. 2
 First Floor Ventilation
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	09.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D2-01-DR-M-0604	-			

AS FITTED

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 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS



Outbound Office // First Floor

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
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 Web: www.wmbuildingservices.com

Approved installers: B-ES, safe, REA

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 2
 First Floor Mechanical
 Services Wiring Layout**

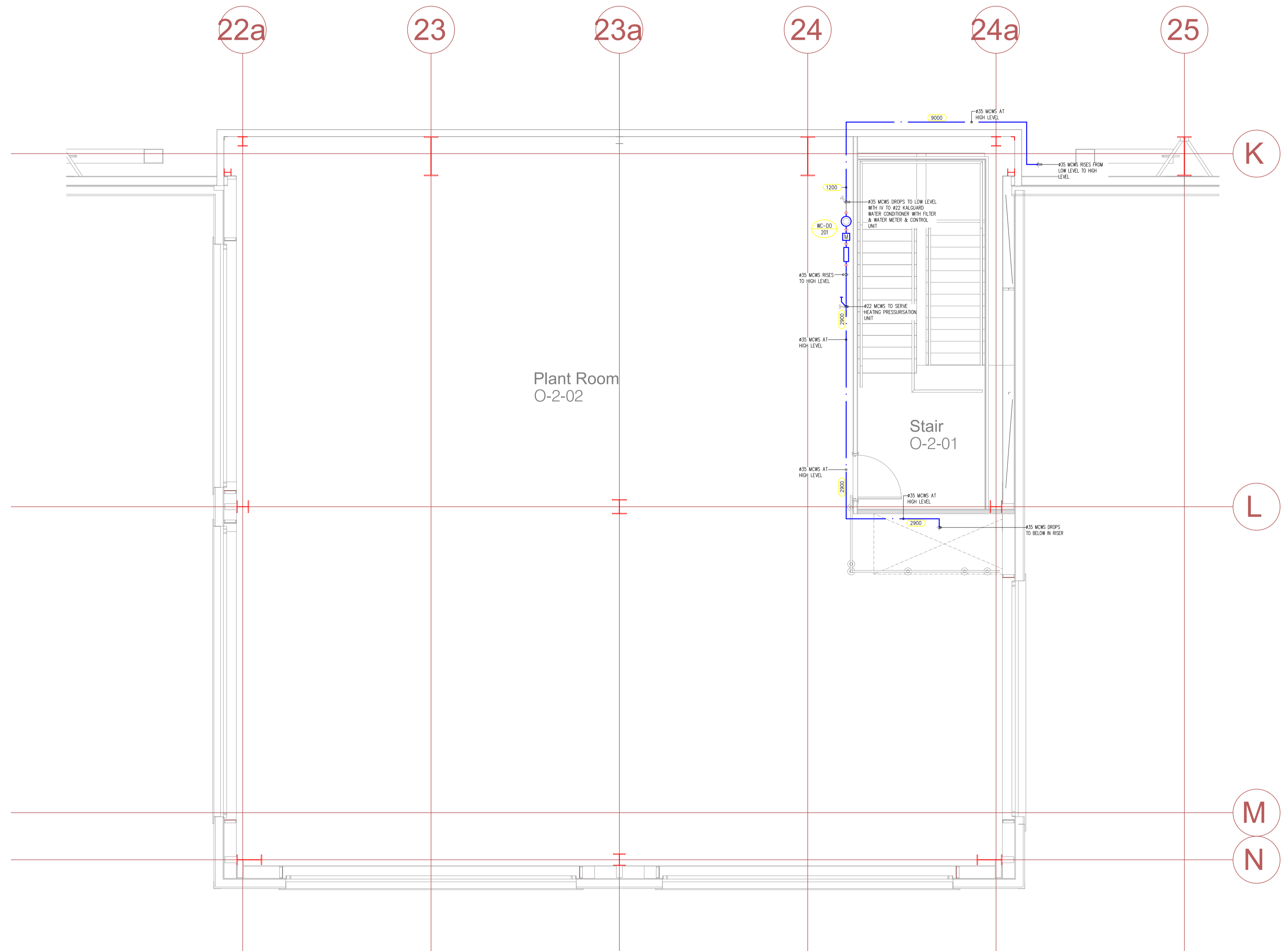
Scale at A1: 1:50	Date: 10.02.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-D2-01-DR-M-0904	Rev: -			

AS FITTED

LEGEND

	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK IN CEILING VOID
	HOT WATER SERVICE
	MAINS COLD WATER SERVICE
	RAINWATER SERVICE
	ISOLATING VALVE
	PRESSURE REDUCING VALVE
	LOCKSHIELD VALVE
	DOUBLE CHECK VALVE
	THERMAL BALANCING VALVE
	WATER SOLENOID VALVE
	BLENDED VALVE
	EXPANSION VESSEL
	PIPEWORK ANCHOR
	HEIGHT TO CENTRE

- NOTES**
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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.



Outbound Office // Second Floor

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
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 LE4 8EB
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 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved Retailer: B&S, SIFE, REA

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 2
 Second Floor Plant Deck
 Domestic Water Services
 Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M

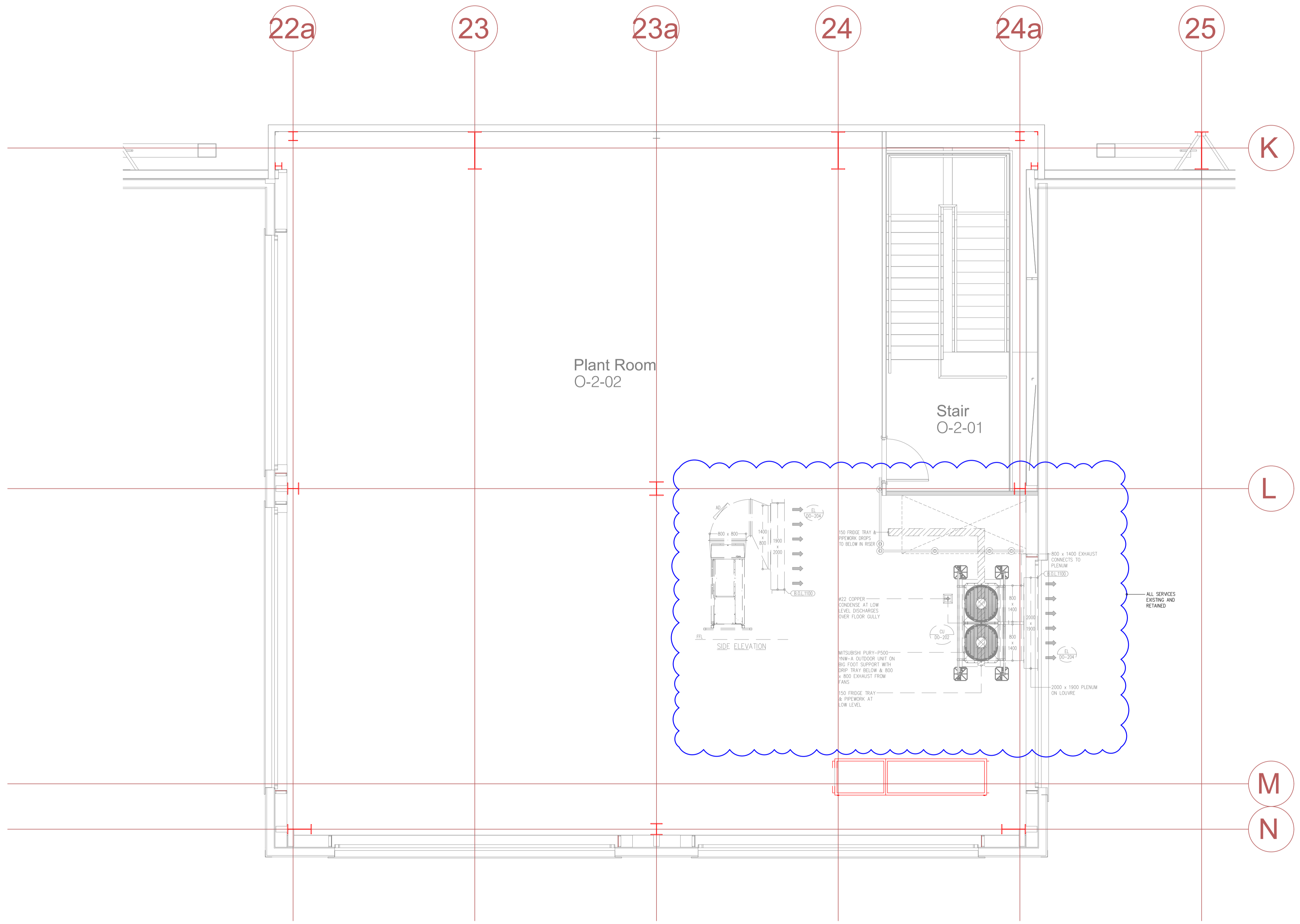
Drawing No:	Rev:
P23027-WMB-D2-02-DR-M-0305	-

AS FITTED

AIR CONDITIONING OUTDOOR UNIT SCHEDULE													
REF NO.	MAKE	TYPE	MODEL	SERVING	PIPE SIZE (Gas-Liquid-Discharge)	MAX VERTICAL RISE (m)	MAX HORIZ LENGTH (m)	COOLING DUTY (kW)	HTG. DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	ACCESSORIES	ELEC SUPPLY
CU-DO-201	mitsubishi	CITY MULTI HEAT RECOVERY VRF	PURY-P500YMW-A1	DISTRIBUTION OFFICE No. 1	28.6/22.2	40	165	50.1	63	1750x740x1858	337	1No CMB-M1012V (12 WAY) BS SOLENOID BOXES	415V 50Hz 3ph

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 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



Outbound Office // Second Floor

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 Web: www.wmbuildingservices.com

BES, SAFE, REA logos

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office No. 2
 Second Floor Plant Deck
 VRF Heating & Cooling
 Services Layout**

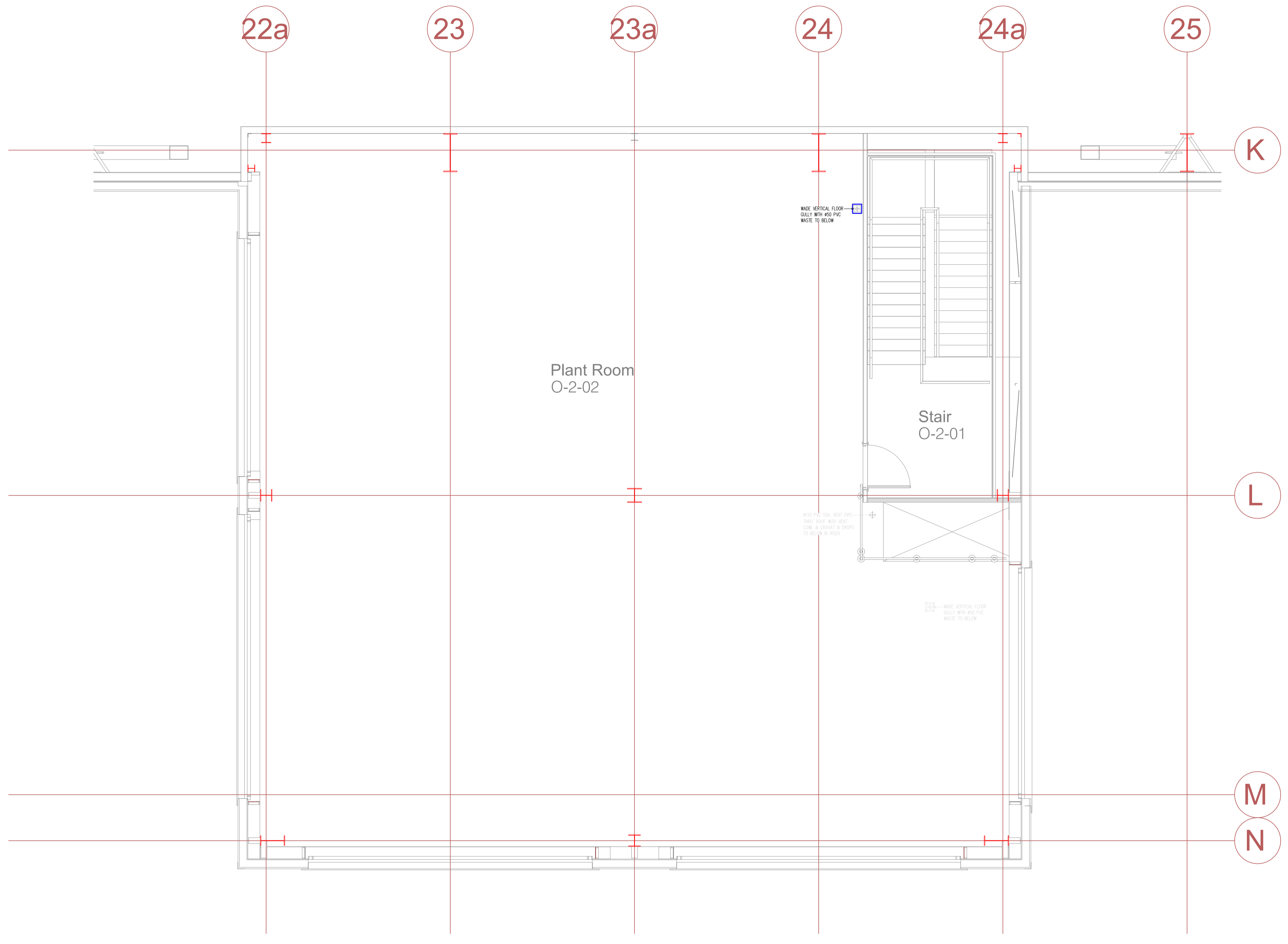
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1:50	09.02.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-D1-02-DR-M-0405** Rev: -

AS FITTED

- NOTES**
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 - SOIL PIPEWORK IS TERRAIN GREY UPVC. WASTE PIPEWORK IS TERRAIN WHITE UPVC.
 - ROOFING ACCESS IS PROVIDED TO ALL STACKS AT EACH LEVEL 1.2M A.F.F.L.
 - MINIMUM FALLS ON VENTILATED AND UNVENTILATED PIPEWORK AS PER GUIDANCE.
 - FIRE COLLARS ARE FITTED ON ALL PIPEWORK ABOVE #50 PASSING THROUGH FIRE WALLS AND FLOORS.

APPLIANCE	FALLS
SINGLE WASH BASIN	1:55 - 1:45
MULTIPLE WASH BASIN	1:55 - 1:22
SINGLE URINAL	1:55 - 1:11
MULTIPLE URINAL	1:55 - 1:11
KITCHEN SINK	1:55
WC	MIN 1:55
MULTIPLE WC	1:111 - 1:11



REV	DATE	DESCRIPTION	BY



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
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 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com



Project:
The RANGE
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 2
 Second Floor Plant Deck
 Public Health Services
 Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.02.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-D2-02-DR-M-0505	-			

AS FITTED

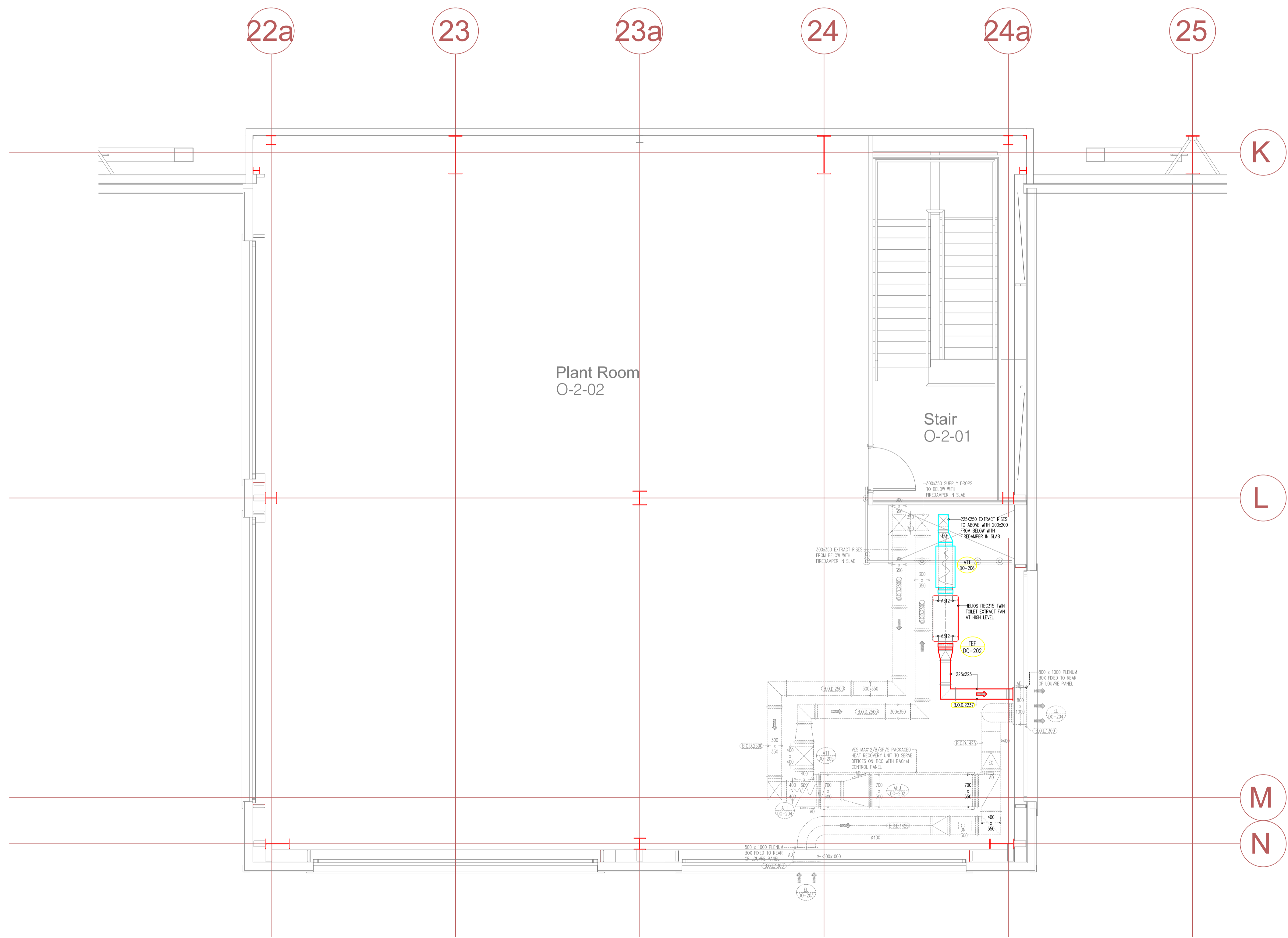
AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP W/(l/s)	POWER (W)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHU-DO-202	DISTRIBUTION OFFICES No. 2	VES ANDOVER	HEAT RECOVERY	MAX12/B/SP/S	0.573 @ 275 Pa	0.360 @ 250 Pa	1.68	3.0 KW	3275x800x1500	511	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BACnet LINK TO BMS	SUPPLY SIDE - MOTORISED INLET DAMPER/1/4 PANEL FILTERS/97 BAG FILTER/HEAT EXCHANGER/SINGLE SUPPLY FAN/ELECTRIC HEATER BATTERY +14.5/23.0 DISCHARGE SP/IGDT EXTRACT SIDE - INLET SP/IGDT/SINGLE EXTRACT FAN/HEAT EXCHANGER & FACE/BYPASS DAMPER/MOTORISED EXHAUST DAMPER	3ph - 415V - 50Hz

EXTRACT FAN SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	SFP W/(l/s)	CONTROL	FLC (A)	POWER (W)	ELEC. SUPPLY
TEF-DO-202	HELIOS	CENTRIFUGAL TWIN FAN	ITEC 315	0.309 @ 245 pa	0.5	FAN SPEED CONTROLLER, AUTO CHANGEOVER PANEL & BMS FAULT SIGNAL	2.8	0.48	230V 1Ph 50Hz

DISTRIBUTION OFFICE 2 ATTENUATOR SCHEDULE										
REF NO.	MAKE	TYPE	MODEL	SERVING	DESIGN FLOW	PRESS LOSS (Pa)	TARGET NR	LENGTH (mm)	CONN SIZE (mm)(WxH)	WEIGHT (kg)
ATT-DO-204	ALLAWAY	RECTANGULAR	SLGE	AHU-DO-202 SUPPLY	0.573	30	38	1200	400x400	38
ATT-DO-205	ALLAWAY	RECTANGULAR	SLGE	AHU-DO-202 EXTRACT	0.36	30	38	1200	400x400	38
ATT-DO-206	LINDAB	CIRCULAR	SLU	TEF-DO-202 TOILET EXTRACT	0.309	30	38	900	315 DIA	12.2

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/W ACCESS DOOR
	MODE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/W ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES SHOWN HATCHED

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
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 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES APPROVED INSTALLER
 REA

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 2
 Second Floor Plant Deck
 Ventilation Services
 Layout**

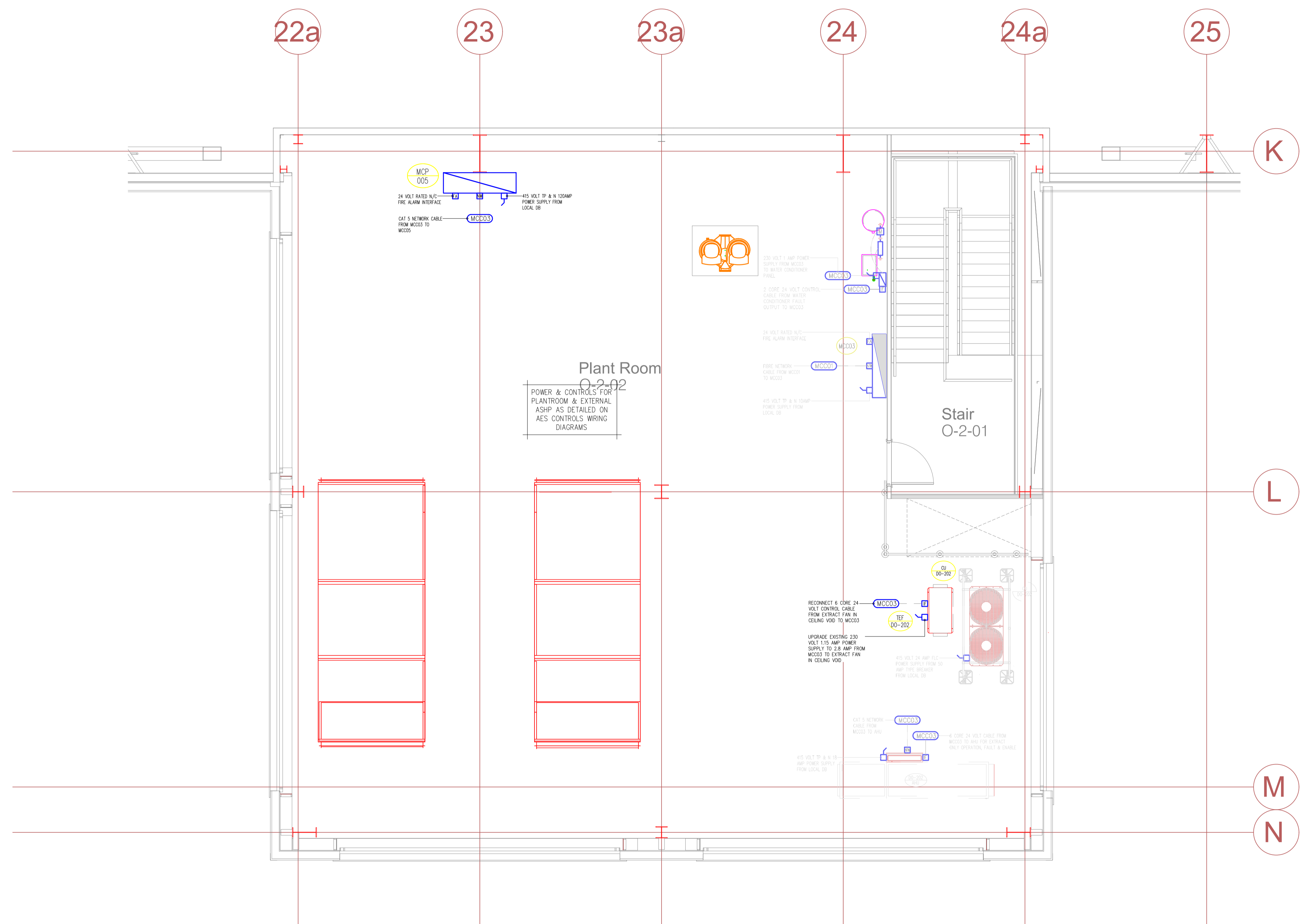
Scale at A1: 1:50 | Date: 09.02.24 | Designed: L.S. | Drawn: L.S. | Design Check: J.M.

Drawing No: P23027-WMB-D2-02-DR-M-0605 | Rev: -

AS FITTED

NOTES

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4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS



Outbound Office // Second Floor

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
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 Tel: (0116) 311 2477
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 Web: www.wmbuildingservices.com



Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Distribution Office No. 2
 Second Floor Plant Deck
 Mechanical Services
 Wiring Layout**

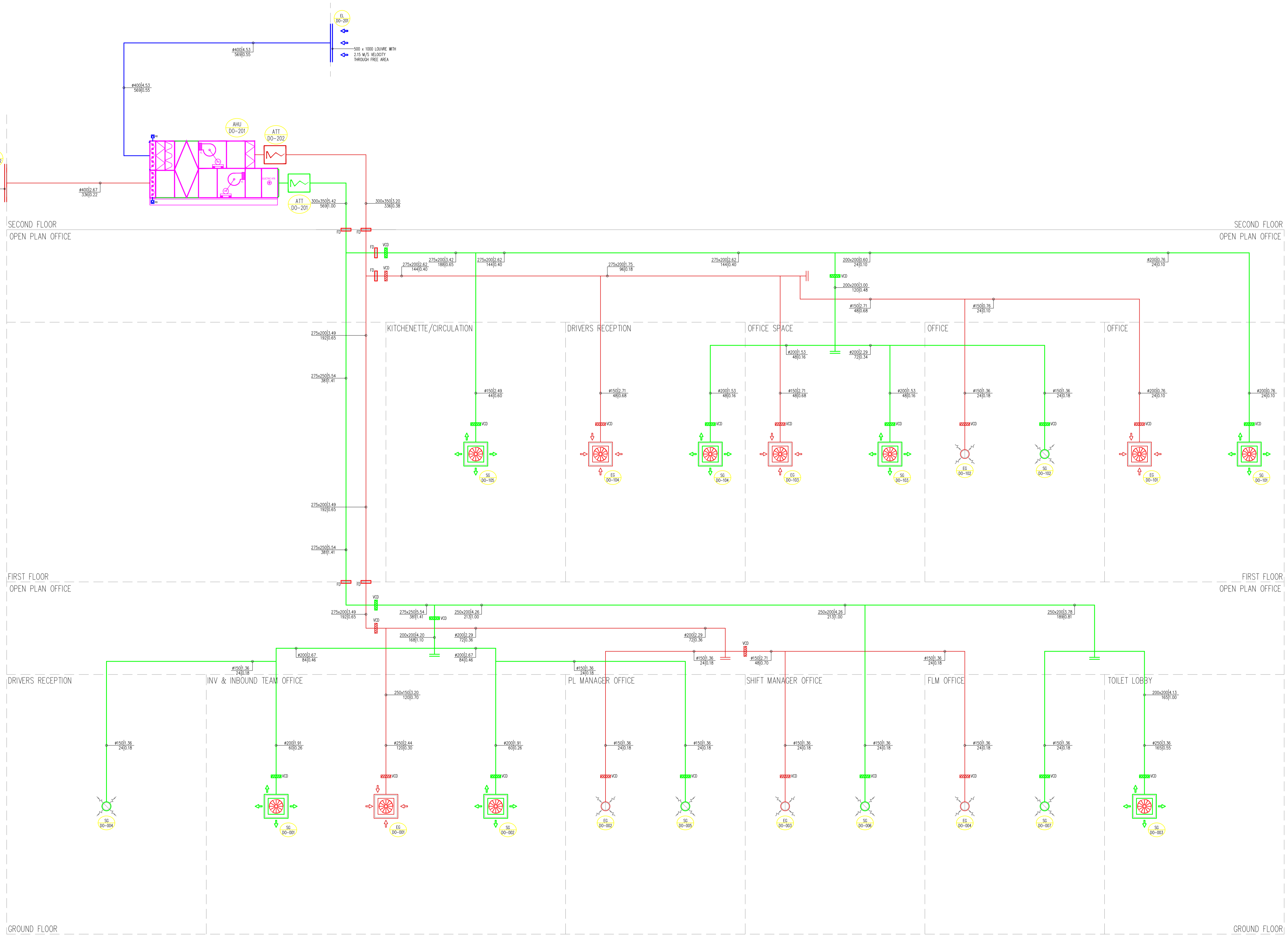
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1:50		10.02.24	L.S	L.S	J.M	

Drawing No:
P23027-WMB-D2-02-DR-M-0905

Rev: -

AS FITTED

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 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



DIS OFFICE 2 - OUTBOUND

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
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BES
 REA

Project:
The RANGE
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

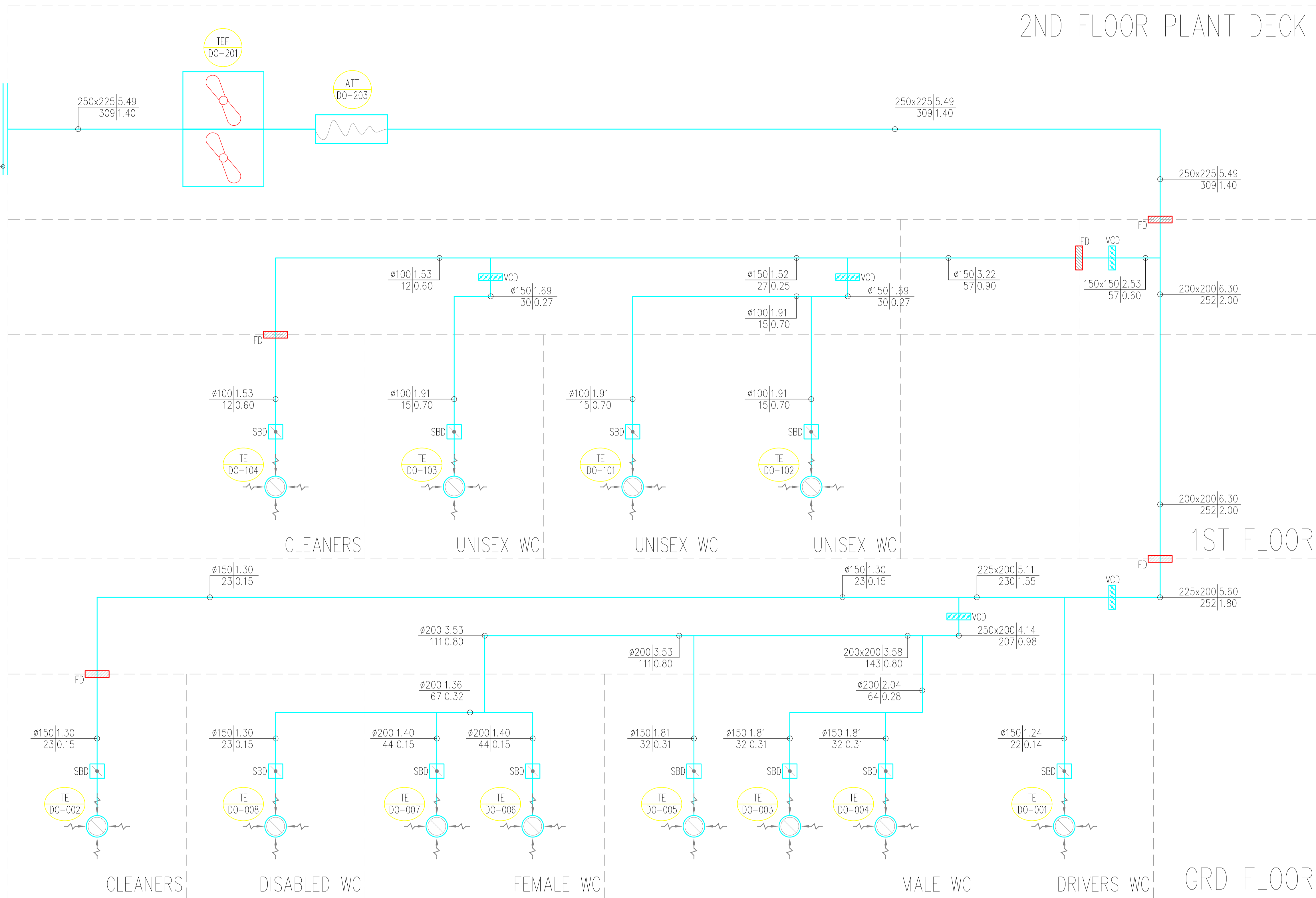
Client:
winvic

Title:
**Distribution Office No. 2
 Outbound Primary
 Ventilation Schematic**

Scale at At:	Date:	Designed:	Drawn:	Design Check:
n.t.s	08.24.24	LS	LS	J.M
Drawing No:	P23027-WMB-D2-ZZ-DR-M-0101			
Rev:	-			

AS FITTED

- NOTES**
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 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 6. ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



DIS OFFICE 2 - OUTBOUND

REV	DATE	DESCRIPTION	BY



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
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The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET



winvic

Title:
 Distribution Office No. 2
 Outbound Toilet Extract
 Ventilation Schematic

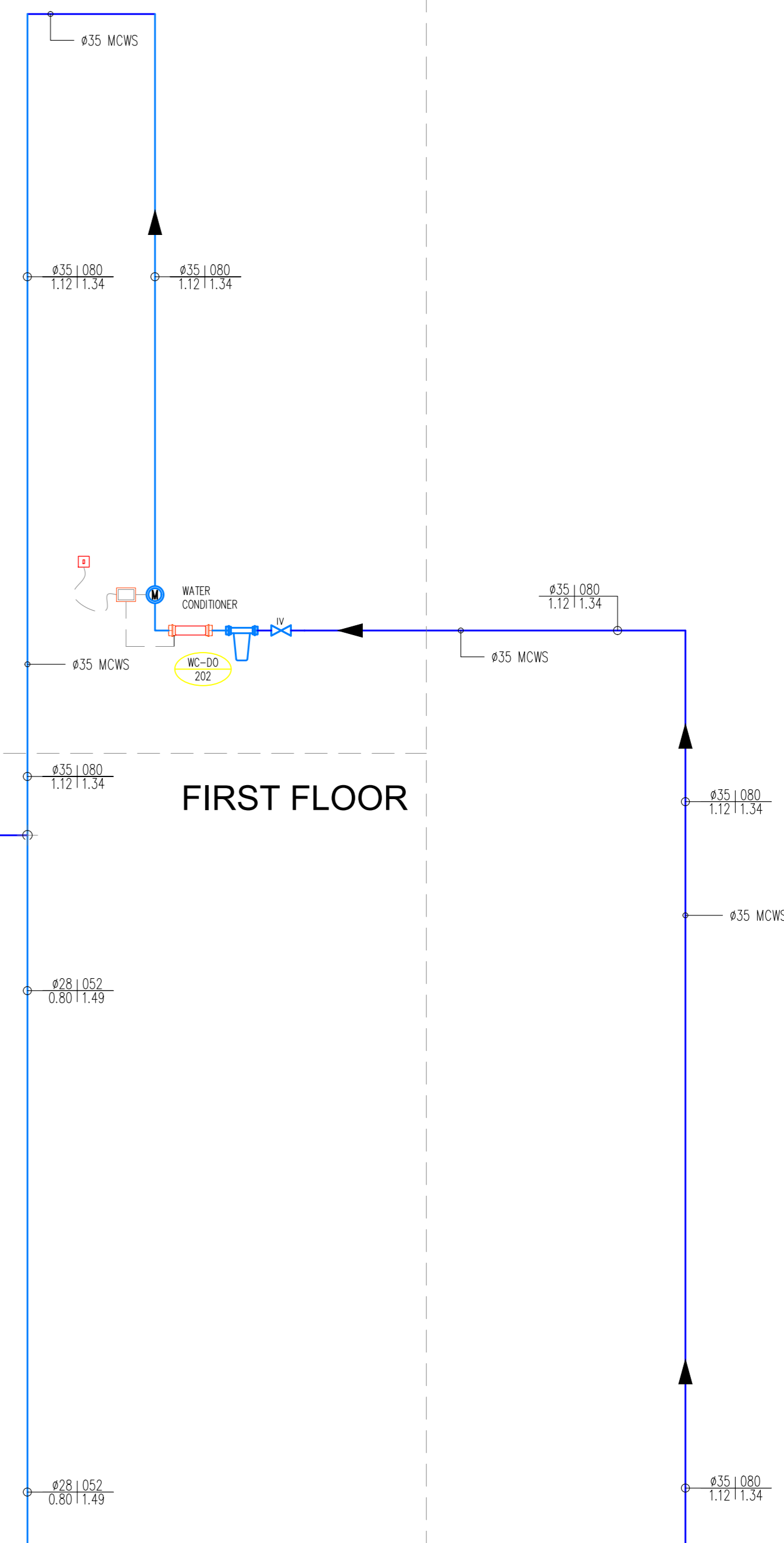
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Drawing No: P23027-WMB-D2-ZZ-DR-M-0103 Rev: -

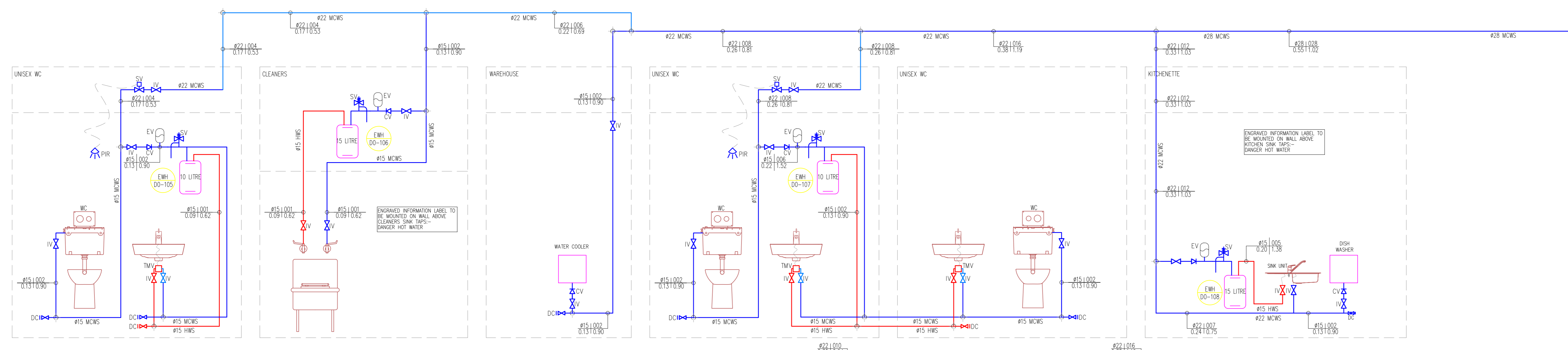
AS FITTED

SECOND FLOOR PLANT DECK

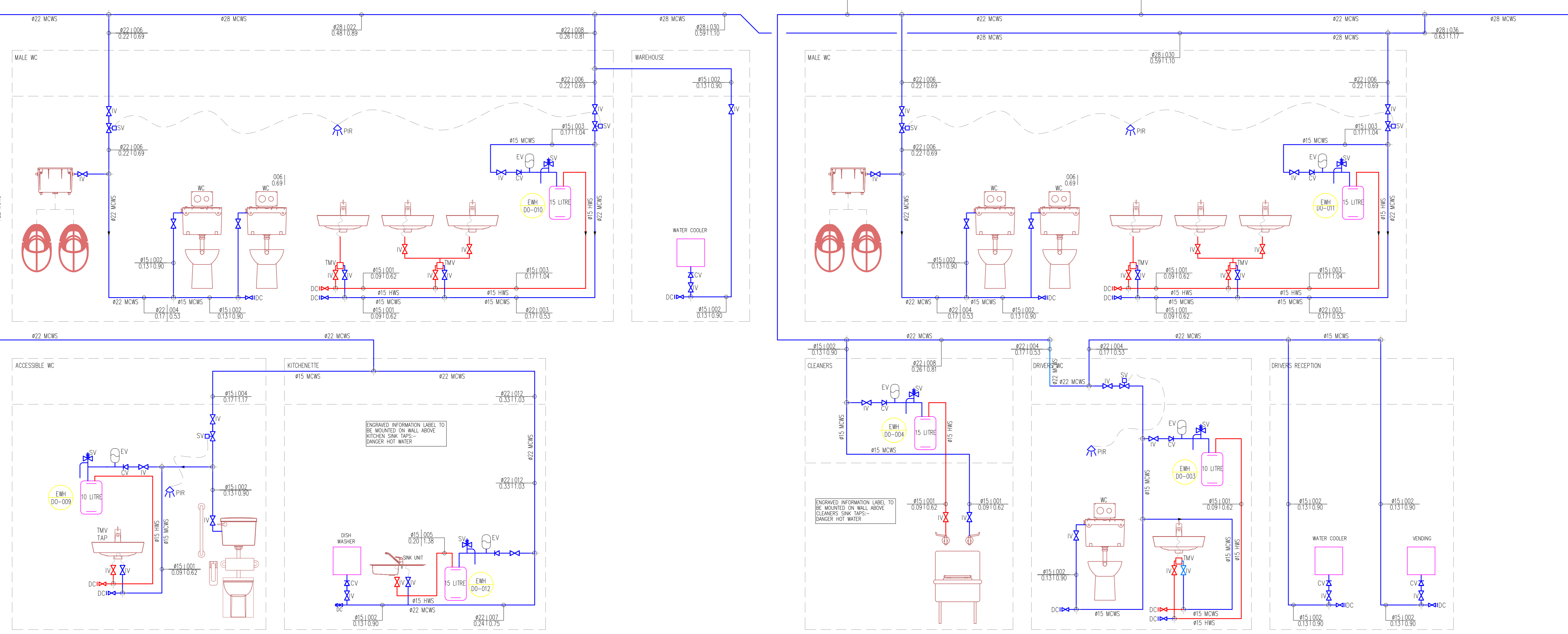
WAREHOUSE



FIRST FLOOR



GROUND FLOOR



DIS OFFICE 2 - OUTBOUND

- NOTES**
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 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
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 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- SYMBOL KEY**
- DIA LU
L/S VEL
- LEGEND**
- HWS HOT WATER SERVICE
 - MCWS MAINS COLD WATER SERVICE
 - BCWS BOOSTED COLD WATER SERVICE
 - IV ISOLATING VALVE
 - WRS WRAS APPROVED SOLENOID VALVE
 - DRV DOUBLE REGULATING VALVE
 - DCV DOUBLE CHECK VALVE
 - TBV THERMAL BALANCING VALVE
 - BV BLENDING VALVE
 - WH WATER HEATER SAFETY VALVE
 - WE WATER HEATER EXP VESSEL
 - DOV DRAIN OFF VALVE
 - SCV SINGLE CHECK VALVE
 - PRV PRESSURE REDUCING VALVE
 - WM WATER METER LINKED TO BMS
 - PIR PIR DETECTOR

REV	DATE	DESCRIPTION	BY

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The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

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Title: **Distribution Office 2 Outbound Domestic Water Services Schematic**

Scale	As	Date	Designed	Drawn	Design Check
m.e.s	1:1	19-04-24	L.S	L.S	J.M

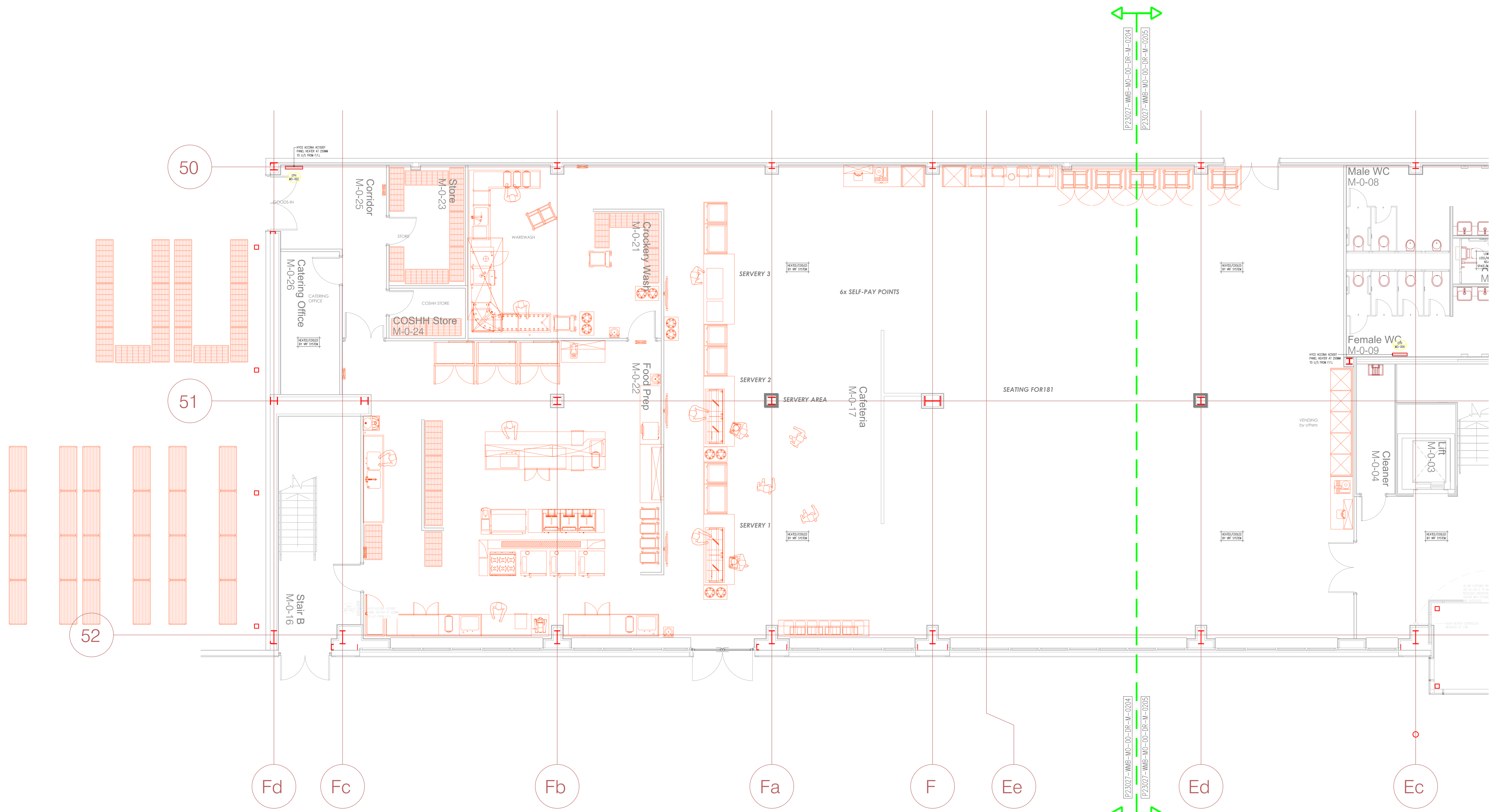
Drawing No: **P23027-WMB-DO-ZZ-DR-M-0109**

AS FITTED

ELECTRIC HEATER SCHEDULE											
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPHMO-001	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-002	HYCO	ACCONA	AC1000T	GF KITCHEN CORRIDOR	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPHMO-003	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-004	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPHMO-005	HYCO	ACCONA	AC1000T	GF WELCOME ROOM	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-006	HYCO	ACCONA	AC1000T	GF MALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-007	HYCO	ACCONA	AC1000T	GF FEMALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-008	ATLANTIC	LIST	AH2549	GF ACC SHOWER	600	820Wx400Hx100D	INTEGRAL TIME/TEMP	-	5.5	2.2	230V 1Ph 50Hz
EPHMO-101	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-102	HYCO	ACCONA	AC2000T	FF STAIRS CIRCULATION	2000	830Wx400Hx60D	INTEGRAL TIME/TEMP	-	5.7	8.8	230V 1Ph 50Hz
EPHMO-103	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPHMO-104	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPHMO-201	HYCO	ACCONA	AC1500T	SF STAIR	1500	560Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPHMO-202	HYCO	ACCONA	AC500T	SF AGENCY CORRIDOR	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz

ELECTRIC TUBULAR HEATER SCHEDULE											
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
ETHAMO-001	HYCO	SAHARA	TH48	DRYING STORE	180	1220Wx90Hx60D	EXTERNAL TEMP STAT	-	2.5	0.8	230V 1Ph 50Hz
ETHAMO-002	HYCO	SAHARA	TH48	DRYING STORE	180	1220Wx90Hx60D	EXTERNAL TEMP STAT	-	2.5	0.8	230V 1Ph 50Hz
ETHAMO-003	HYCO	SAHARA	TH48	DRYING STORE	180	1220Wx90Hx60D	EXTERNAL TEMP STAT	-	2.5	0.8	230V 1Ph 50Hz

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 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS



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The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

winvic

Project: Main Office Ground Floor Electric Heating Services
Title: Layout Sht 1 of 2

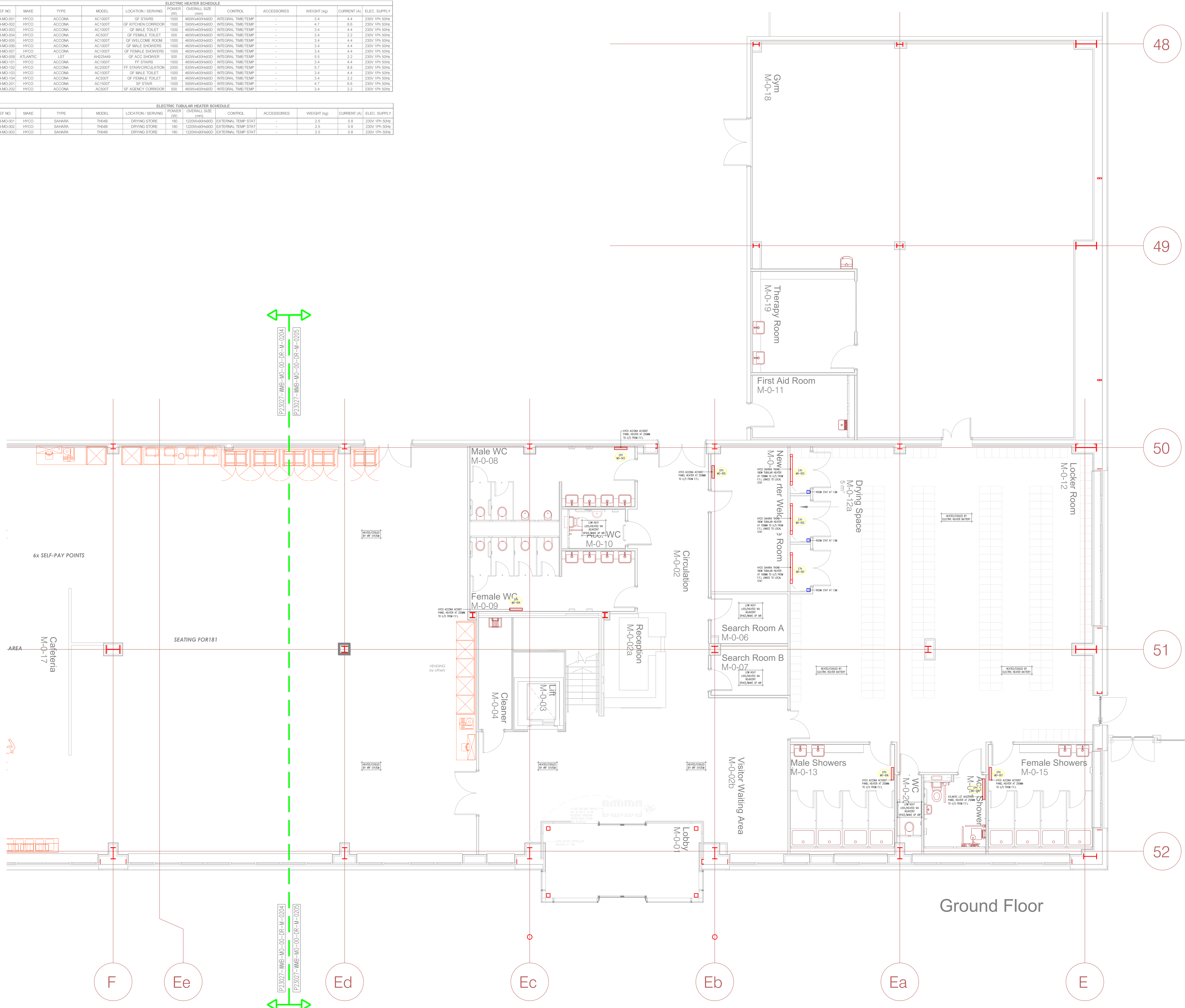
Scale of A5:	Date:	Designed:	Drawn:	Design Check:
1:50	11.02.24	L.S	L.S	J.M

Drawing No: P23027-WMB-MO-00-DR-M-0204

AS FITTED

ELECTRIC HEATER SCHEDULE										
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	ELEC. SUPPLY
EPHMO-001	HVCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-002	HVCO	ACCONA	AC1000T	GF KITCHEN CORRIDOR	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	4.7	6.6 230V 1Ph 50Hz
EPHMO-003	HVCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-004	HVCO	ACCONA	AC1000T	GF FEMALE TOILET	500	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	2.2 230V 1Ph 50Hz
EPHMO-005	HVCO	ACCONA	AC1000T	GF WELCOME ROOM	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-006	HVCO	ACCONA	AC1000T	GF MALE SHOWERS	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-007	HVCO	ACCONA	AC1000T	GF FEMALE SHOWERS	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-008	ATLANTIC	LIST	AH25549	GF ACC. SHOWER	500	830Wx400Hx600D	INTEGRAL TIME/TEMP	-	5.6	2.2 230V 1Ph 50Hz
EPHMO-101	HVCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
EPHMO-102	HVCO	ACCONA	AC2000T	FF STAIRS/CIRCULATION	2000	830Wx400Hx600D	INTEGRAL TIME/TEMP	-	5.7	8.8 230V 1Ph 50Hz
EPHMO-103	HVCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx600D	INTEGRAL TIME/TEMP	-	3.4	4.4 230V 1Ph 50Hz
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ELECTRIC TUBULAR HEATER SCHEDULE										
REF NO	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	ELEC. SUPPLY
ETHMO-001	HVCO	SAMARA	TH48	DRYING STORE	180	1220Wx600Hx600D	EXTERNAL TEMP/STAT	-	2.5	0.8 230V 1Ph 50Hz
ETHMO-002	HVCO	SAMARA	TH48	DRYING STORE	180	1220Wx600Hx600D	EXTERNAL TEMP/STAT	-	2.5	0.8 230V 1Ph 50Hz
ETHMO-003	HVCO	SAMARA	TH48	DRYING STORE	180	1220Wx600Hx600D	EXTERNAL TEMP/STAT	-	2.5	0.8 230V 1Ph 50Hz



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 5. ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS.

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The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

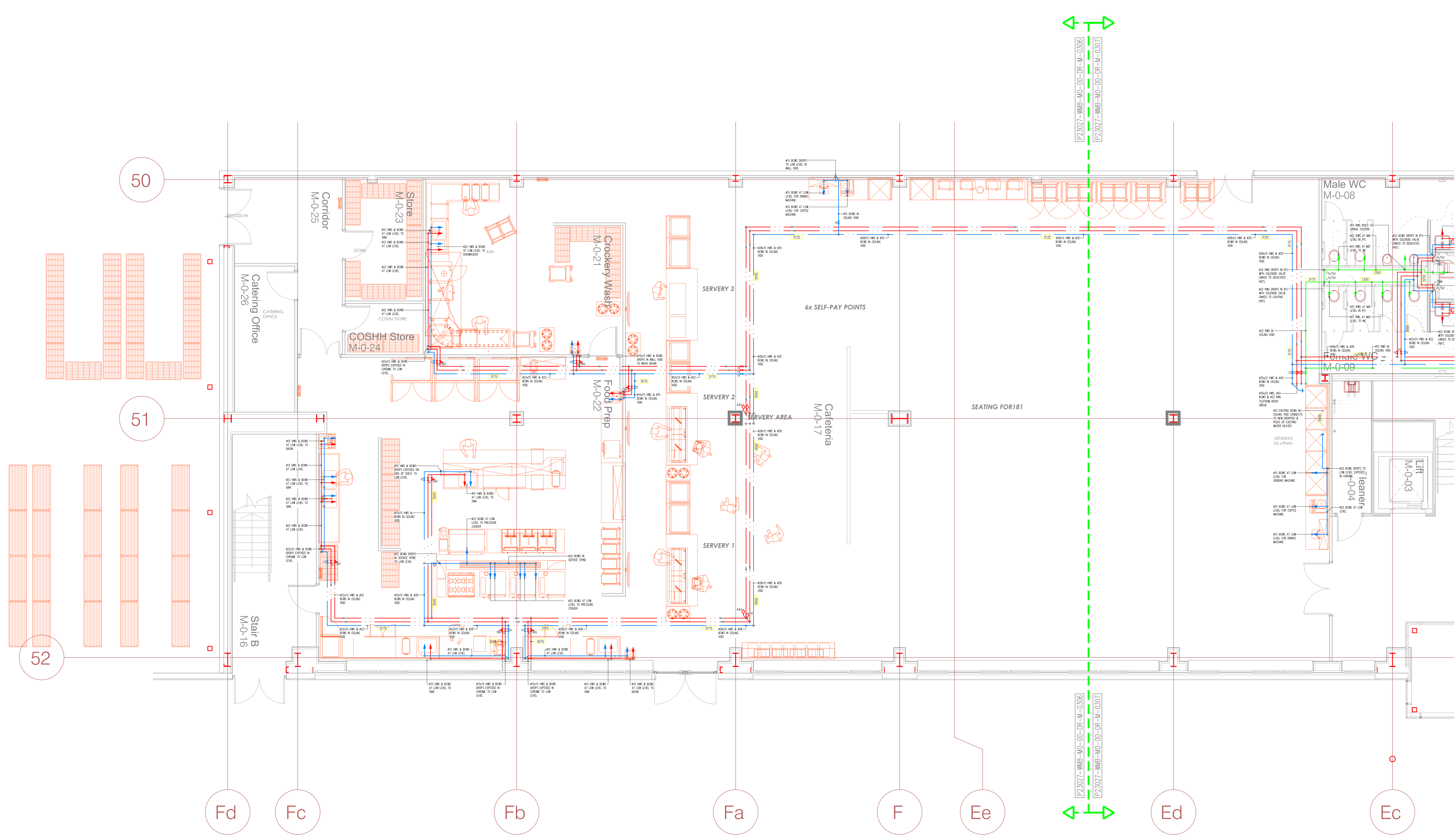
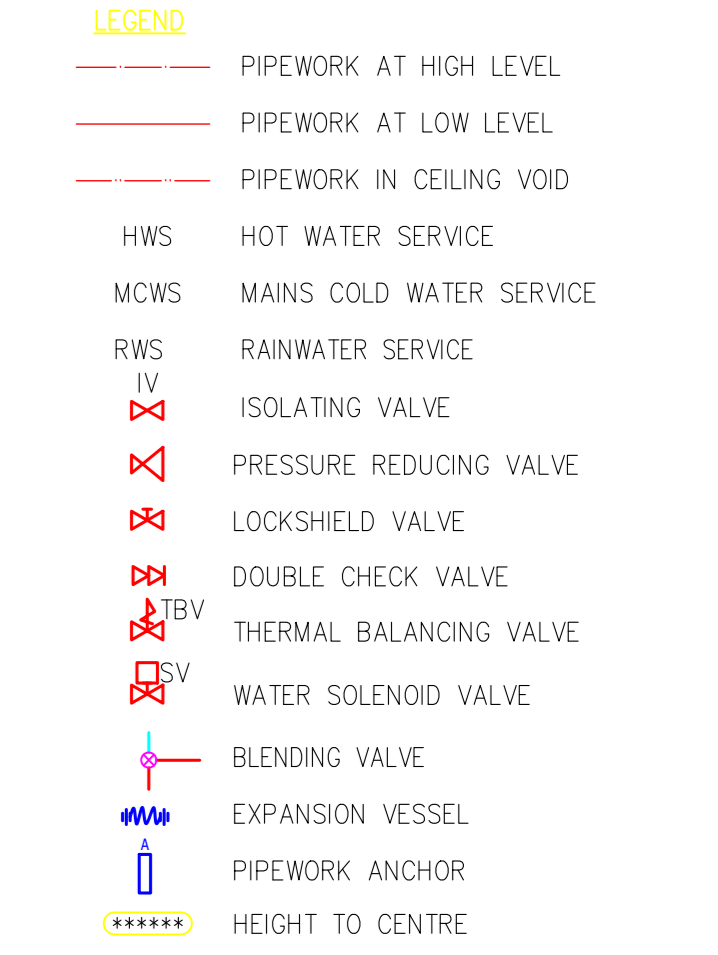
winvic

Title:
 Main Office Ground Floor
 Electric Heating Services
 Layout Sht 2 of 2

Scale of A3:	Date:	Designed:	Drawn:	Design Check:
1:50	11.05.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-MO-00-DR-M-0205	-			

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BES **REACT**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Main Office Ground Floor
 Domestic Water Services
 Layout Sht 1 of 2**

Scale	As	Date	Designed	Drawn	Design Check
1:50	1:50	11.02.24	L.S	L.S	J.M

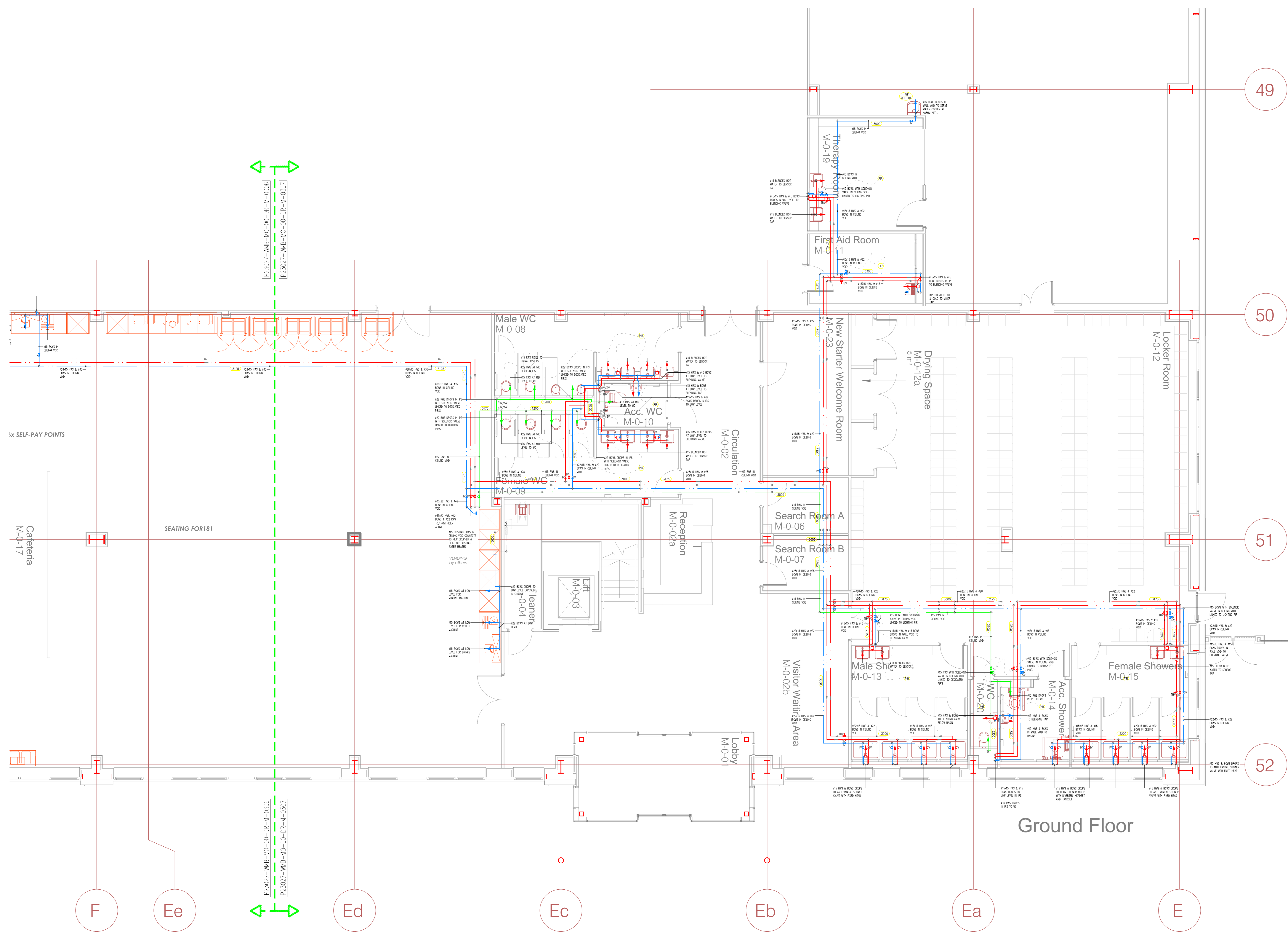
Drawing No:
P23027-WMB-MO-00-DR-M-0306

AS FITTED

WATER COOLERS						
REF NO.	LOCATION	MAKE	TYPE	MODEL	CONN (mm)	CAPACITY (L/HOUR)
WF-MO-001	GYM	ELKAY	EDUCO SENSOR OPERATED BOTTLE FILLING STATION	L20VSS22KH	15MM	37
				DIM VOL/WT		
					454x483x1310	

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 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- LEGEND**
- PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - PIPEWORK IN CEILING VOID
 - HWS HOT WATER SERVICE
 - MCWS MAINS COLD WATER SERVICE
 - RWS RAINWATER SERVICE
 - IV ISOLATING VALVE
 - PRV PRESSURE REDUCING VALVE
 - LV LOCKSHIELD VALVE
 - DCV DOUBLE CHECK VALVE
 - TV THERMAL BALANCING VALVE
 - WSV WATER SOLENOID VALVE
 - BV BLENDING VALVE
 - EXPV EXPANSION VESSEL
 - ANCHOR PIPEWORK ANCHOR
 - HEIGHT TO CENTRE



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BES **REACT**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Main Office Ground Floor
 Domestic Water Services
 Layout Sht 2 of 2**

Scale of A5	Date:	Designed:	Drawn:	Design Check:
1:50	11.02.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-MO-00-DR-M-0307		Rev:	-

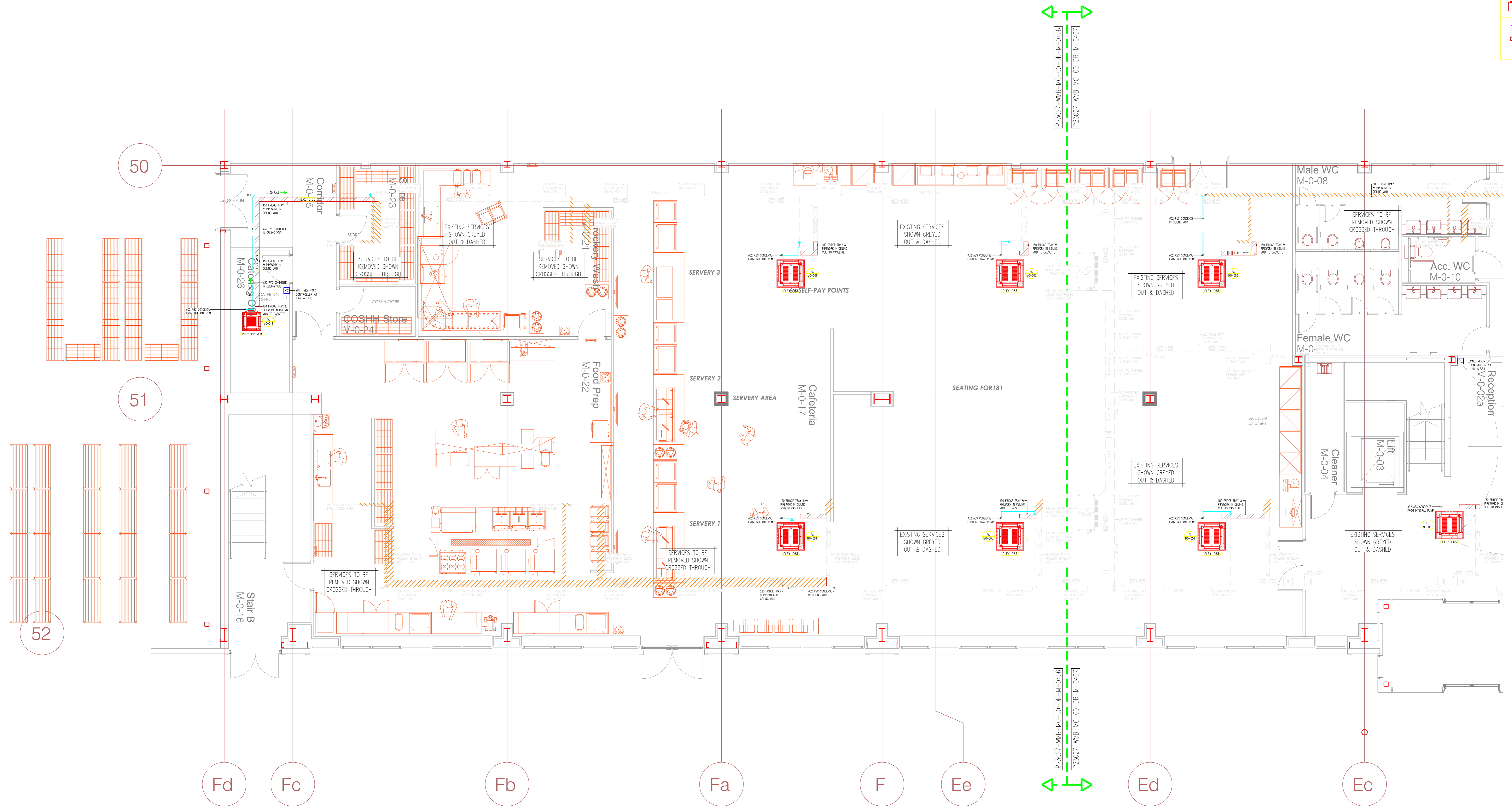
AS FITTED

REF NO	MAKE	TYPE	MODEL	SERVING / LOCATION	AIR CONDITIONING INDOOR UNIT SCHEDULE			OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ACCESSORIES	ELEC SUPPLY
					PIPE SIZE (GAS- LIQUID)	TOTAL COOLING DUTY (kW)	SENSIBLE COOLING DUTY (kW)					
FCUM001	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21	CENTRALLY CONTROLLED	230V-1PH-50HZ
FCUM002	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM003	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM004	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM005	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM006	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM007	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF ENTRANCE	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21	PAR-40MAA	230V-1PH-50HZ
FCUM008	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF WAITING AREA	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM009	MITSUBISHI	WALL MOUNTED	PPFY-MQVPM-E	OF FIRST AID	12.7mm - 6.35mm	2	1.4	2.5	237733259	11	PAR-40MAA	230V-1PH-50HZ
FCUM010	MITSUBISHI	4 WAY FLOW COMPACT CASSETTE	PPFY-MQVPM-E	OF THERAPY ROOM	12.7mm - 6.35mm	3.2	2.4	4.0	245670470	15	PAR-40MAA	230V-1PH-50HZ
FCUM011	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF COM	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM012	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF COM	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21	PAR-40MAA	230V-1PH-50HZ
FCUM013	MITSUBISHI	4 WAY FLOW CEILING CASSETTE	PPFY-MQVPM-E	OF COM	15.9mm - 9.5mm	6.4	4.9	8.0	2586404840	21		230V-1PH-50HZ
FCUM014	MITSUBISHI	4 WAY FLOW COMPACT CASSETTE	PPFY-MQVPM-E	OF KITCHEN OFFICE	12.7mm - 6.35mm	2	1.6	2.5	245670470	15	PAR-40MAA	230V-1PH-50HZ

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS.
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN uPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND

	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



REV	DATE	DESCRIPTION	BY



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurston
 Leicester
 LE16 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com



winvic

Main Office Ground Floor VRF Heating & Cooling Services Layout Sht 1 of 2

Scale	At	Date	Designed	Drawn	Design Check
1:50	25-02-24	L5	L5	JJM	JJM

Drawing No: P23027-WMB-MO-00-DR-M-0406

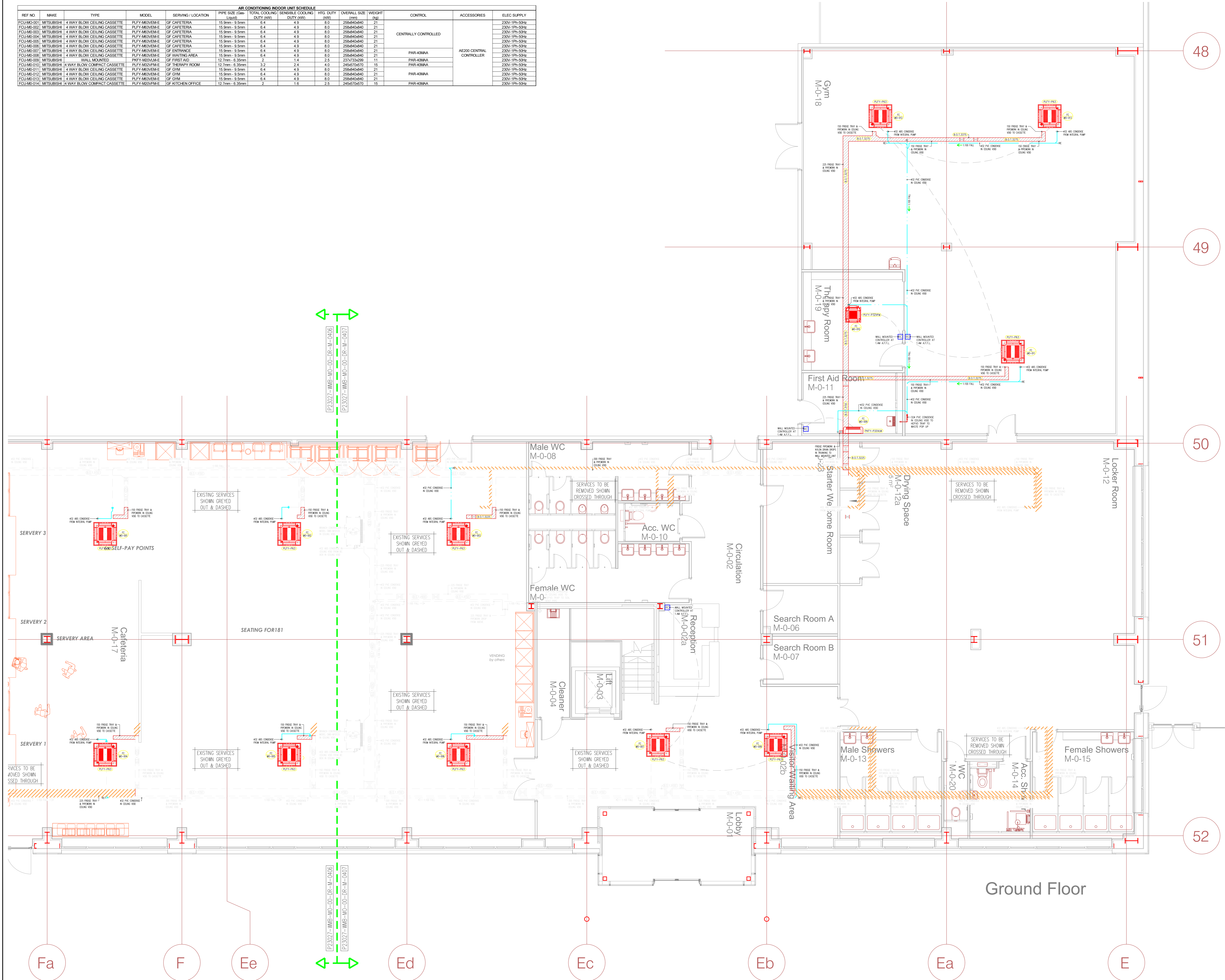
AS FITTED

REF NO	MAKE	TYPE	MODEL	SERVING / LOCATION	AIR CONDITIONING INDOOR UNIT SCHEDULE			HTG. DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ACCESSORIES	ELEC SUPPLY
					PIPE SIZE (GAS)	TOTAL COOLING DUTY (kW)	SENSIBLE COOLING DUTY (kW)						
FCUM001	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21	CENTRALLY CONTROLLED	AE300 CENTRAL CONTROLLER	230V 1PH-50Hz
FCUM002	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM003	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM004	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM005	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM006	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF CAFETERIA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM007	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF ENTRANCE	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM008	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF WAITING AREA	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM009	mitsubishi	WALL MOUNTED	PFY-MQVPM-E	OF FIRST AID	12.7mm - 6.35mm	2	1.4	2.5	237x73x259	11			230V 1PH-50Hz
FCUM010	mitsubishi	4 WAY FLOW COMPACT CASSETTE	PFY-MQVPM-E	OF THERAPY ROOM	12.7mm - 6.35mm	3.2	2.4	4.0	245x70x670	15			230V 1PH-50Hz
FCUM011	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF GYM	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM012	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF GYM	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM013	mitsubishi	4 WAY FLOW CEILING CASSETTE	PFY-MQVPM-E	OF GYM	15.9mm - 9.5mm	6.4	4.9	8.0	258x44x440	21			230V 1PH-50Hz
FCUM014	mitsubishi	4 WAY FLOW COMPACT CASSETTE	PFY-MQVPM-E	OF KITCHEN OFFICE	12.7mm - 6.35mm	2	1.6	2.5	245x70x670	15			230V 1PH-50Hz

- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS.
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN UPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND

	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE14 6EB
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 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

REVA **REA**

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

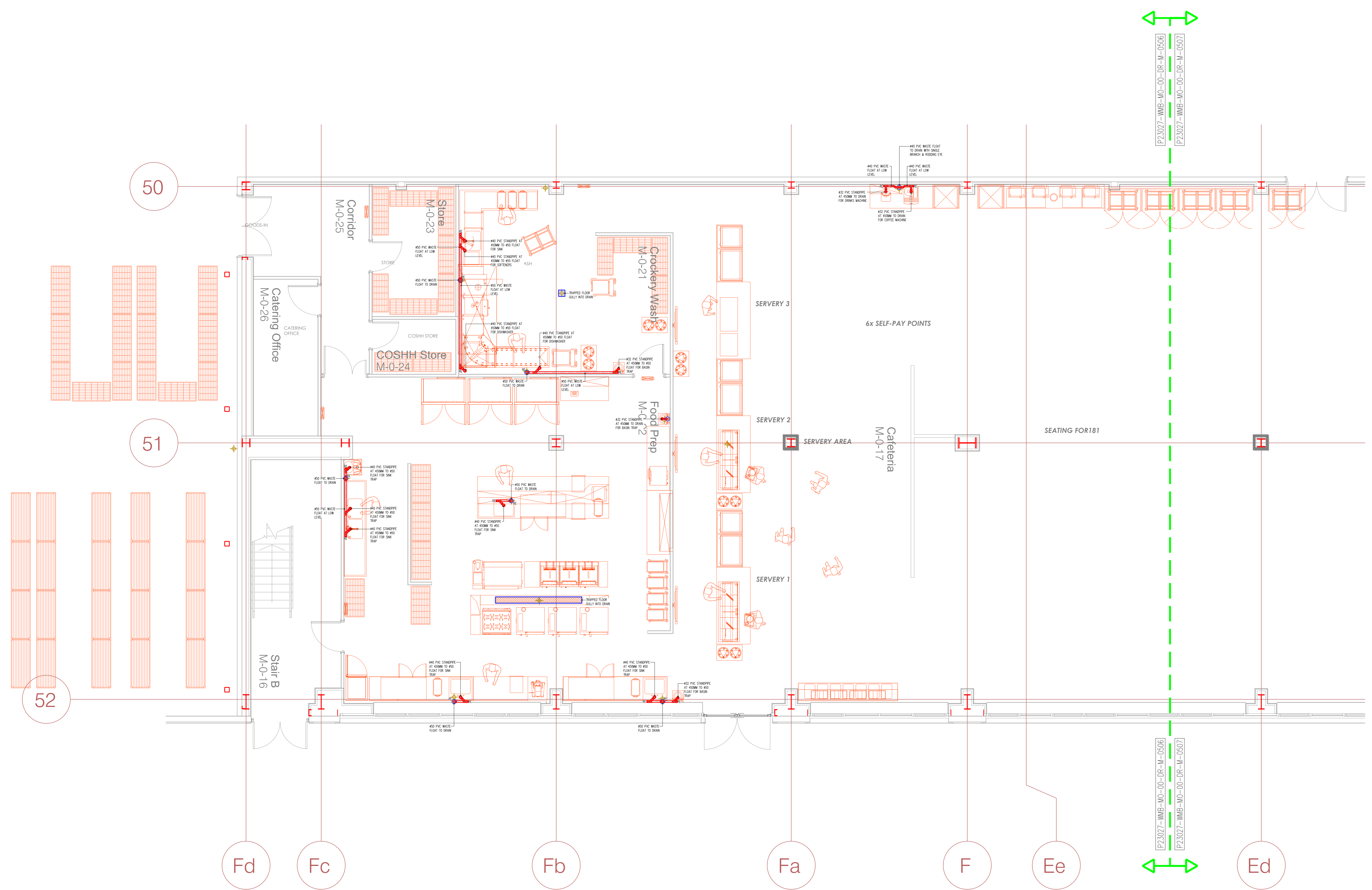
Client: **winvic**

Title: **Main Office Ground Floor VRF Heating & Cooling Services Layout Sht 2 of 2**

Scale of A1:	Date:	Designed:	Drawn:	Design Check:
1:50	26-02-24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-MO-00-DR-M-0407	-			

AS FITTED

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS & CONTRACT DOCUMENTS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE BUILDING SERVICES SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALE.
 4. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH THE BUILDING SERVICES SCHEDULES.
 6. ACCESS IS PROVIDED TO ALL STAIRS AT EACH LEVEL, UNLESS OTHERWISE STATED.
 7. WINDOW FALLS ON UNVENTILATED AND UNVENTILATED PERIMETER AT THE CEILING.
 8. FIRE COLLARS ARE FITTED ON ALL PERIMETER ROOF AND PASSING THROUGH FIRE WALLS AND FLOORS.
- | APPLIANCE | FALLS |
|---------------------|-------------|
| SINGLE WASH BASIN | 1.00 - 1.10 |
| MULTIPLE WASH BASIN | 1.50 - 1.22 |
| SINGLE URINAL | 1.50 - 1.11 |
| MULTIPLE URINAL | 1.50 - 1.11 |
| WETTER SINK | 1.50 |
| WC | MIN 1.05 |
| MULTIPLE WC | 1.00 - 1.11 |



REV	DATE	DESCRIPTION	BY



WM BUILDING SERVICES (LEICESTER) LTD
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 Leicester
 LE14 6EJ
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 Web: www.wmbuildingservices.com




Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

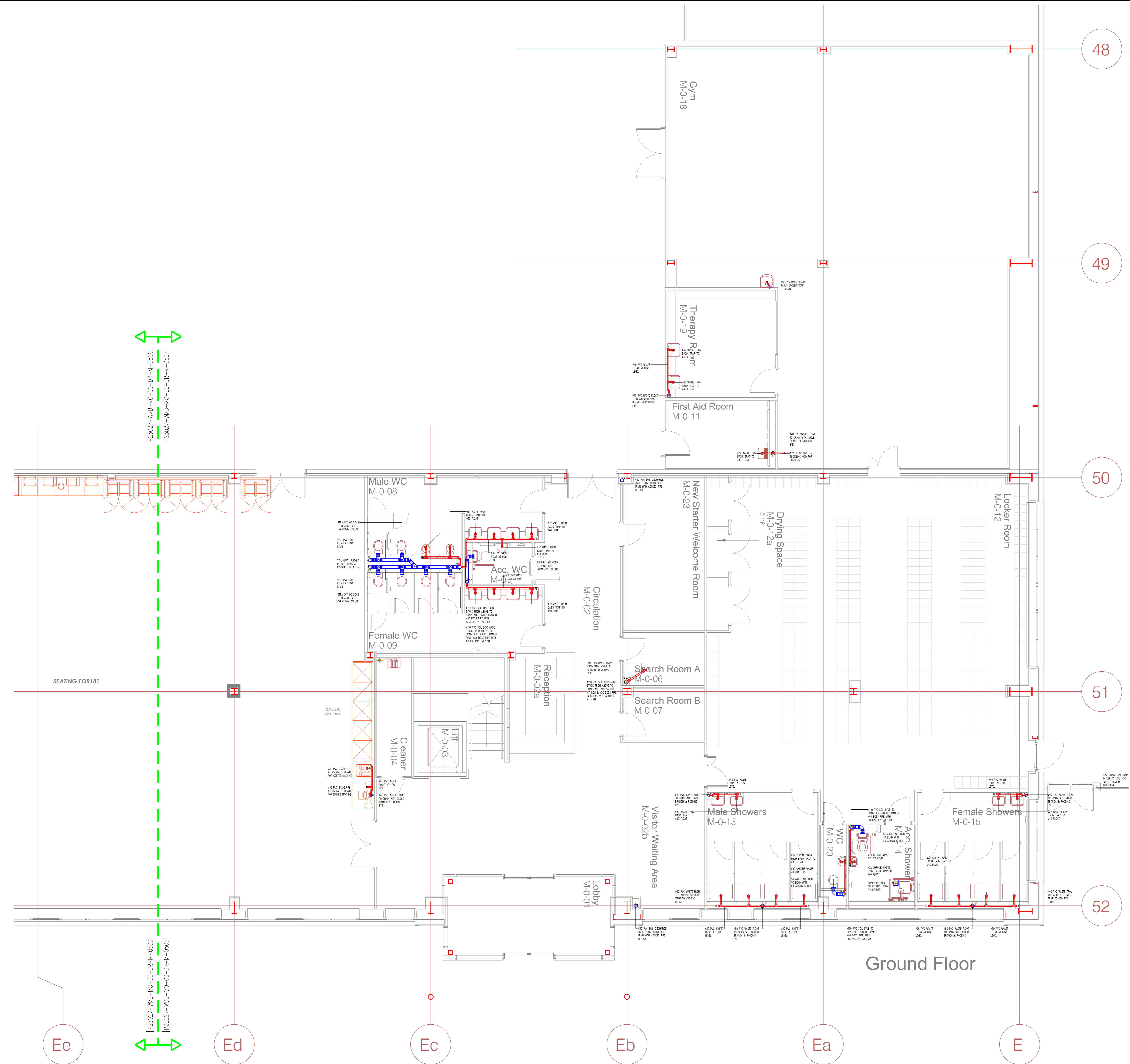
Title: **Main Office Ground Floor
 Public Health Services
 Layout Sht 1 of 2**

Scale at A3	Date:	Designed:	Drawn:	Design Check:
1:50	11.02.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-MO-00-DR-M-0506** Rev: **-**

AS FITTED

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALE.
 4. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 6. ROOMS ACCESS IS PROVIDED TO ALL STAIRS AT EACH LEVEL, UNLESS OTHERWISE STATED.
 7. ROOMS FALLS ON UNVENTILATED AND UNVENTILATED PROVIDED AS THE DESIGNER.
 8. FIRE COLLARS ARE FITTED ON ALL PENETRATION ABOVE AND PASSING THROUGH FIRE WALLS AND FLOORS.
- | APPLIANCE | FALLS |
|---------------------|-------------|
| SINGLE WASH BASIN | 1.00 - 1.10 |
| MULTIPLE WASH BASIN | 1.50 - 1.10 |
| SINGLE URINAL | 1.50 - 1.11 |
| MULTIPLE URINAL | 1.50 - 1.11 |
| WITCHER SINK | 1.50 |
| WC | MIN 1.05 |
| MULTIPLE WC | 1.00 - 1.11 |



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
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 Web: www.wmbservices.com

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

winvic

Title:
 Main Office Ground Floor
 Public Health Services
 Layout Sht 2 of 2

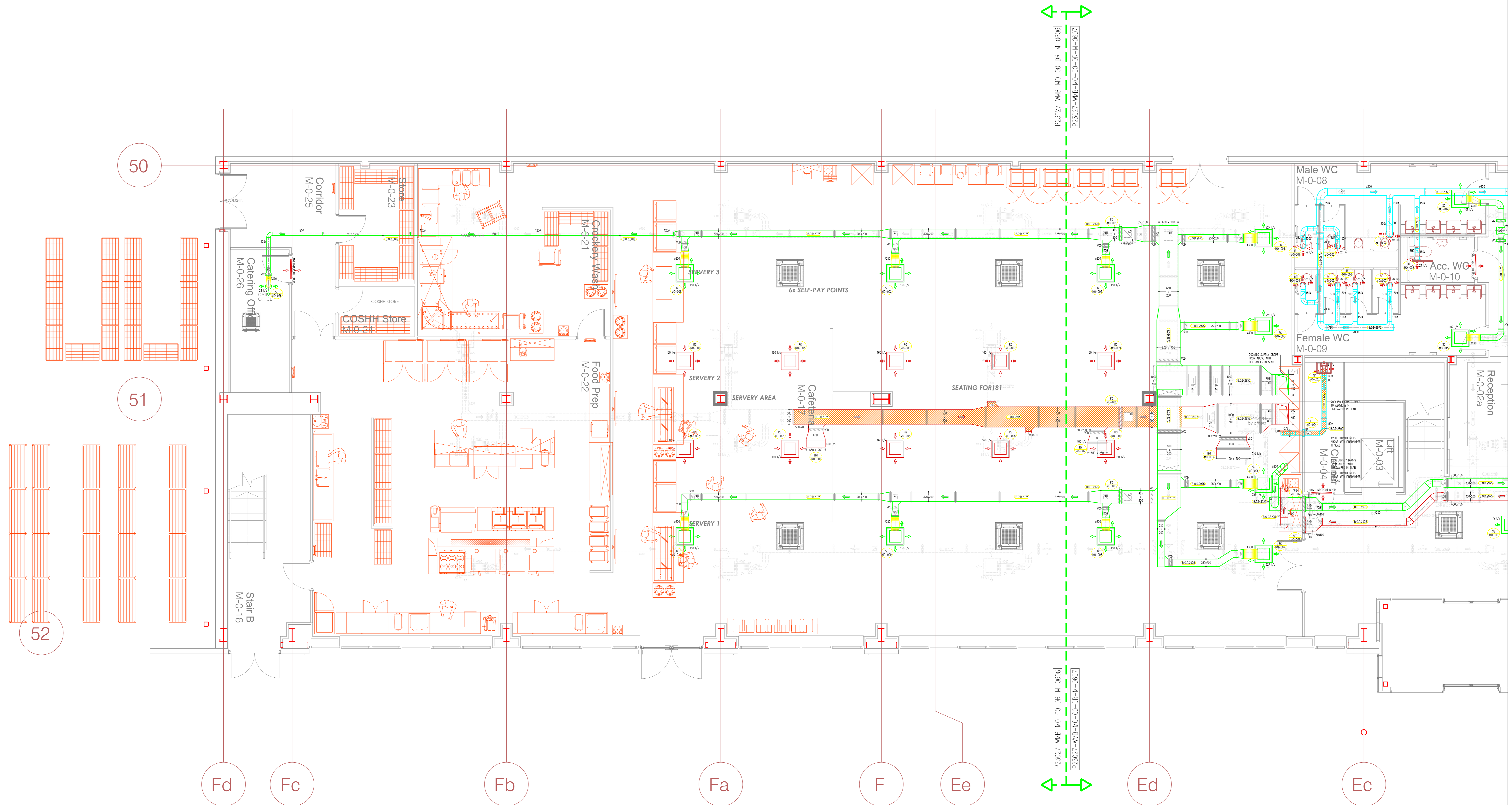
Scale of A5	Date:	Designed:	Drawn:	Design Check:
1:50	11.09.24	L.S	L.S	J.M

Drawing No: P23027-WMB-MO-00-DR-M-0507 **Rev:** -

AS FITTED

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS.
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH.

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVER FACED RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR VALVE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/N ACCESS DOOR
	WIDE 5 BLADE FIRE DAMPER LINKED TO FIRE ALARM VIA BMS C/N ACCESS DOOR
	EXTERNAL LOUVER
	RETAINED EXISTING SERVICES SHOWN HATCHED



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES
 WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE14 6BB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES **REACT**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

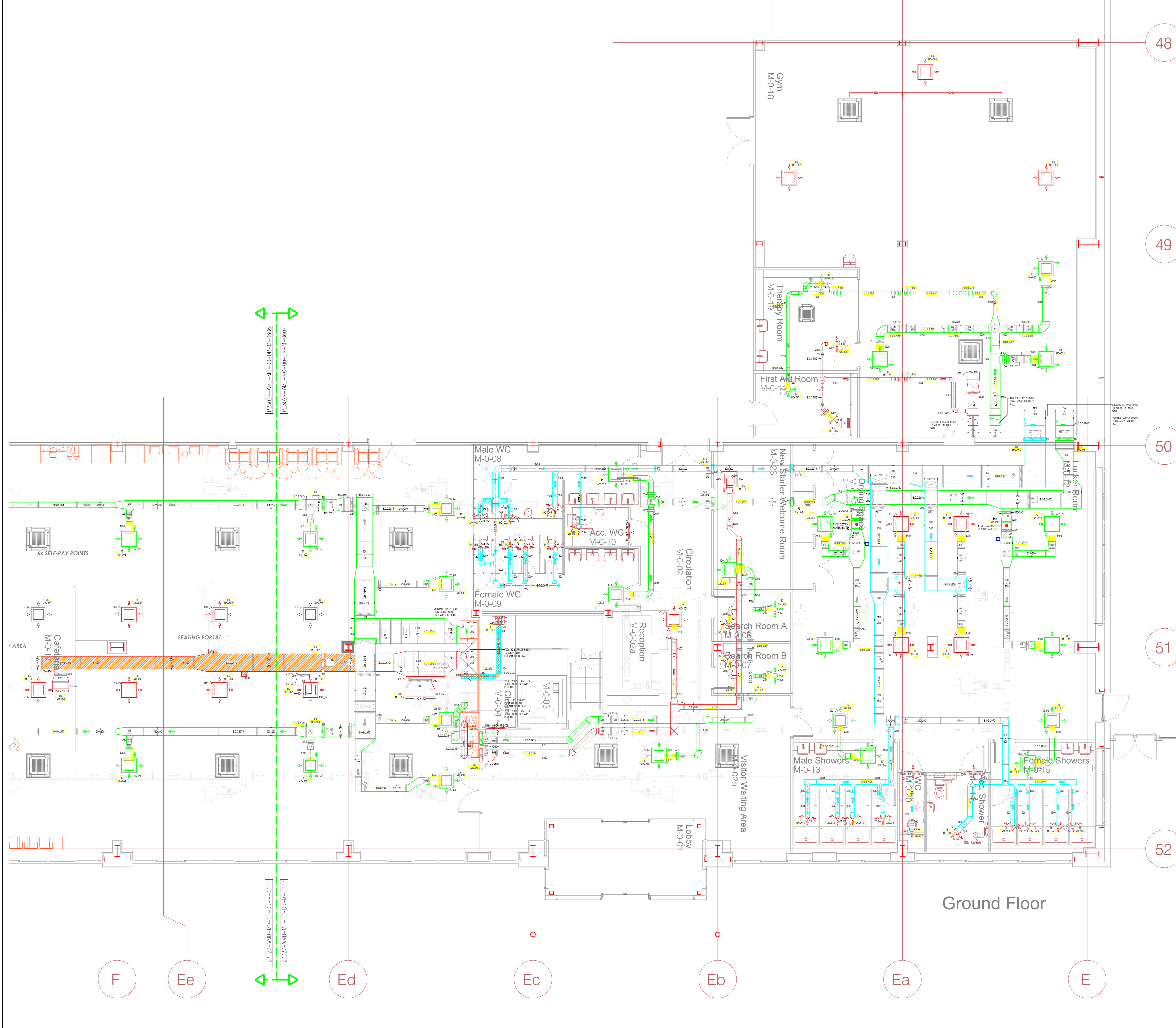
Client:
winvic

Title:
Main Office Ground Floor Ventilation Services Layout Sht 1 of 2

Scale of A5: 1:50
 Date: 26-02-24
 Designed: L.S.
 Drawn: L.S.
 Design Check: J.M.

Drawing No: P23027-WMB-MO-00-DR-M-0606
 Rev: -

AS FITTED



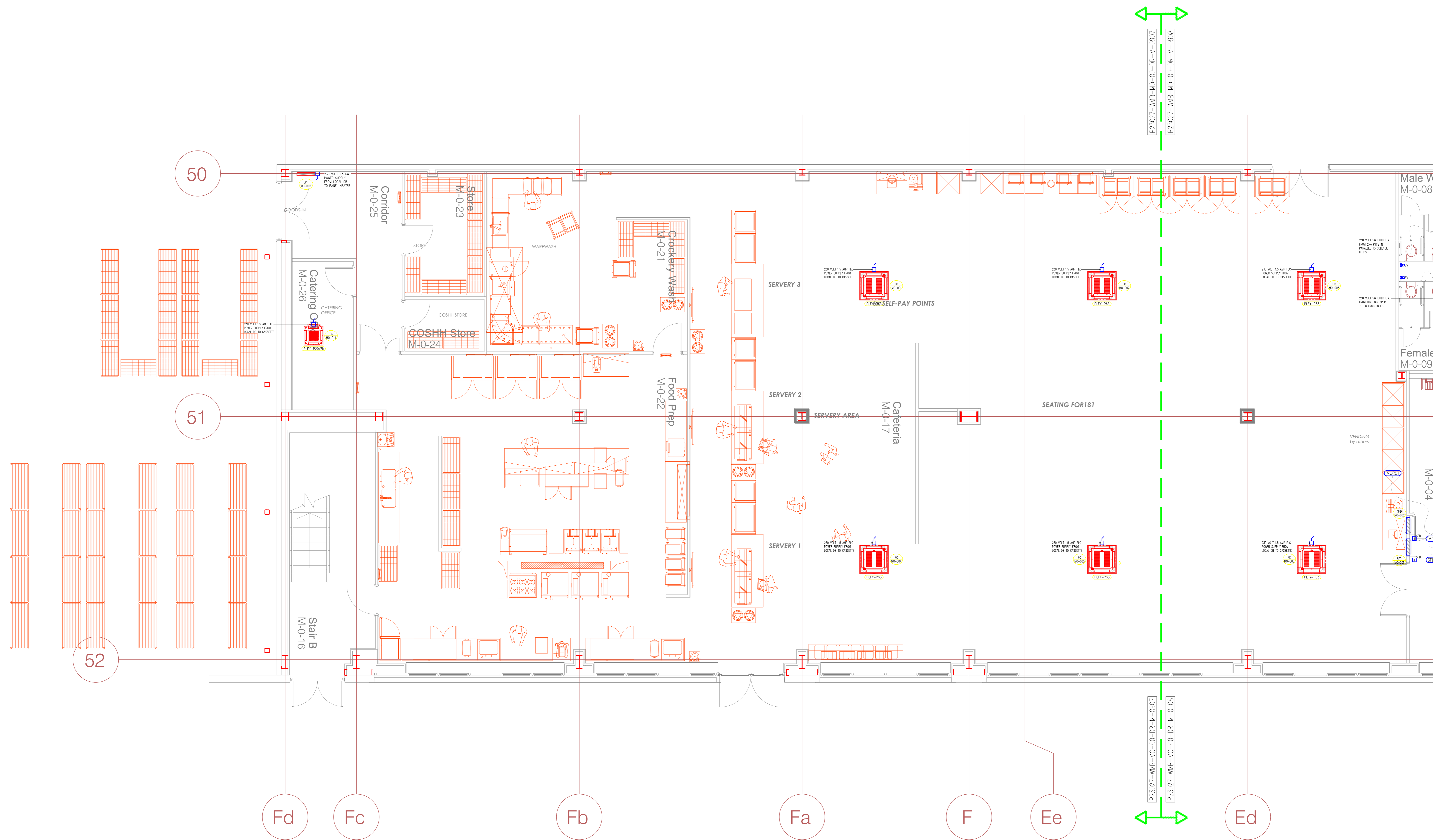
- NOTES**
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 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 6. ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS.
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH.

LEGEND

	CEILING MOUNTED FOUR WAY LOUVRE
	CEILING MOUNTED RETURN AIR GRILLE
	CEILING MOUNTED SUPPLY DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR GRILLE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/N ACCESS DOOR
	WIDE SINGLE BLADE DAMPER LINKED TO FIRE ALARM VA BAG C/N ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES (SHOWN HATCHED)

REV	DATE	DESCRIPTION	BY
WM BUILDING SERVICES (LEICESTER) LTD 657 Melton Road Thurmaston Leicester LE14 6BB Tel: (0116) 311 2477 Fax: (0116) 260 9537 Email: office@wmbuildingservices.com Web: www.wmbuildingservices.com			
The Range Home, Leisure & Garden PLOT 4000 STOWMARKET			
winvic			
Title: Main Office Ground Floor Ventilation Services Layout Sht 2 of 2			
Scale of A5:	Date:	Designed:	Drawn/Design Check:
1:50	26-02-24	L.S	L.S J.M
Drawing No:	Rev:		
P23027-WMB-MO-00-DR-M-0607	-		
AS FITTED			

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS.
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS.



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES
 WM BUILDING SERVICES (LEICESTER) LTD
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BES **REACT** **REA**

Project:
The Range
 Home, Leisure & Garden
 PLOT 4000 STOWMARKET

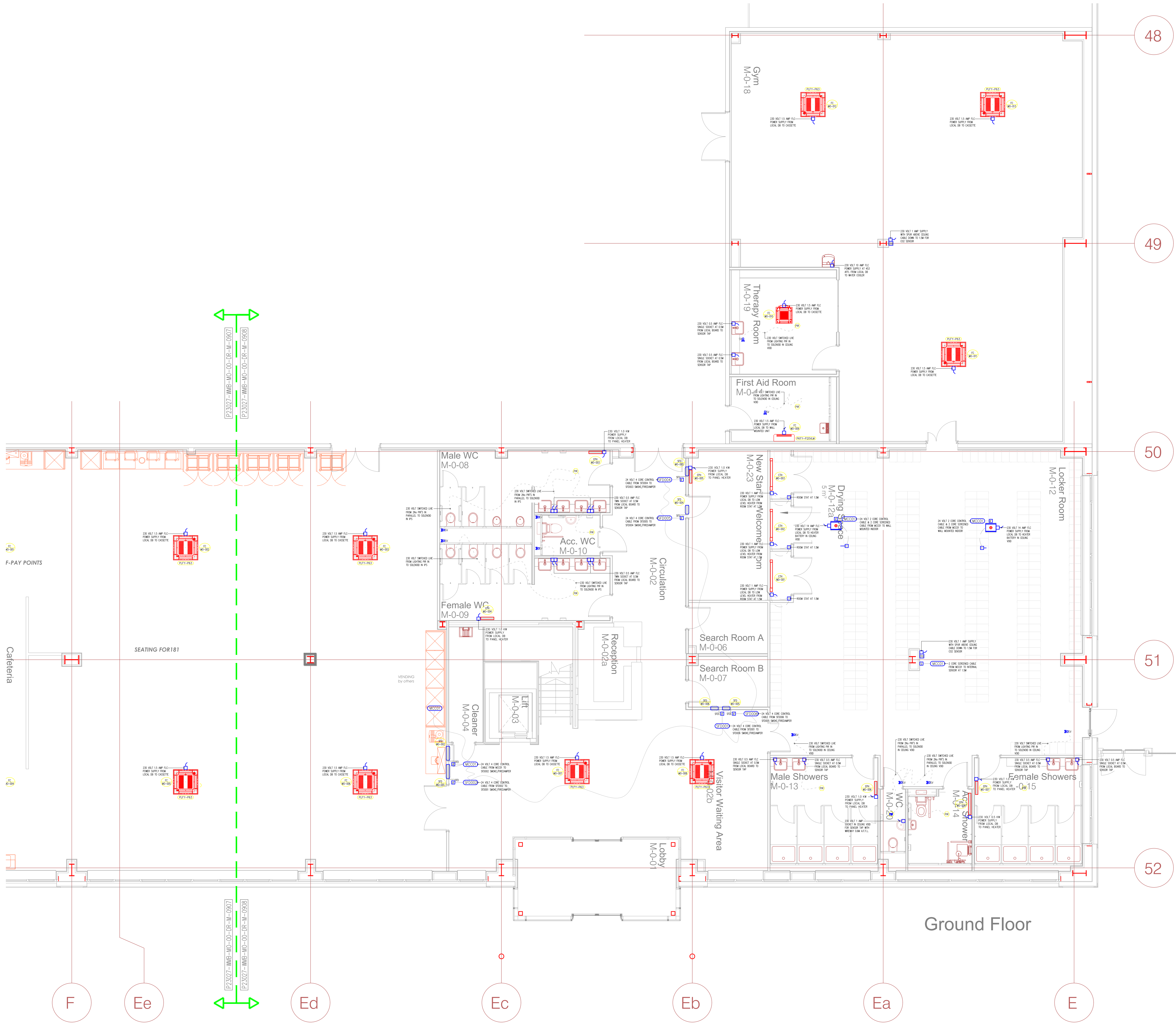
Client:
winvic

Title:
**Main Office Ground Floor
 Mechanical Power &
 Controls Wiring Sht 1 of 2**

Scale of A5: 1:50 Date: 18.09.24 Designed: L.S. Drawn: L.S. Design Check: J.M.
 Drawing No: P23027-WMB-MO-00-DR-M-0907 Rev: -

AS FITTED

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
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 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS.
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS.



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES
 WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE15 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
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 Web: www.wmbuildingservices.com

BES **REA**

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

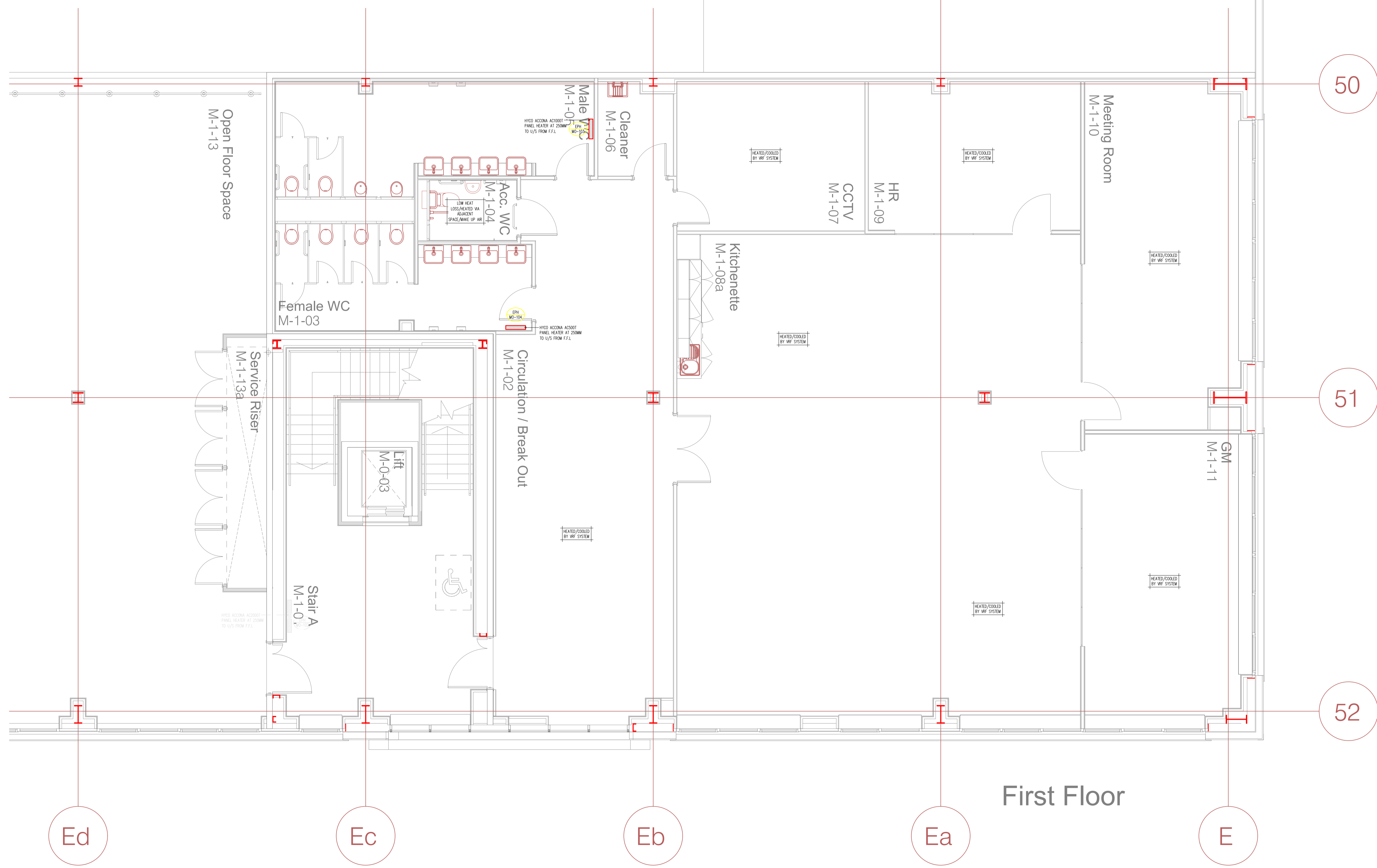
Title: **Main Office Ground Floor Mechanical Power & Controls Wiring Sht 2 of 2**

Scale of A6: 1:50 Date: 18.09.24 Designed: L.S. Drawn: L.S. Design Check: J.M.
 Drawing No: P23027-WMB-MO-00-DR-M-0908 Rev: -

AS FITTED

ELECTRIC HEATER SCHEDULE											
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-MO-001	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-002	HYCO	ACCONA	AC1500T	GF KITCHEN CORRIDOR	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-MO-003	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-004	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-MO-005	HYCO	ACCONA	AC1000T	GF WELCOME ROOM	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-006	HYCO	ACCONA	AC1000T	GF MALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-007	HYCO	ACCONA	AC1000T	GF FEMALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-008	ATLANTIC	LST	AH25449	GF ACC SHOWER	500	832Wx430Hx63D	INTEGRAL TIME/TEMP	-	5.5	2.2	230V 1Ph 50Hz
EPH-MO-101	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-102	HYCO	ACCONA	AC2000T	FF STAIR/CIRCULATION	2000	830Wx400Hx60D	INTEGRAL TIME/TEMP	-	5.7	8.8	230V 1Ph 50Hz
EPH-MO-103	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-104	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-MO-201	HYCO	ACCONA	AC1500T	SF STAIR	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-MO-202	HYCO	ACCONA	AC500T	SF AGENCY CORRIDOR	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS



First Floor

REV	DATE	DESCRIPTION	BY



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
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 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com



The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET



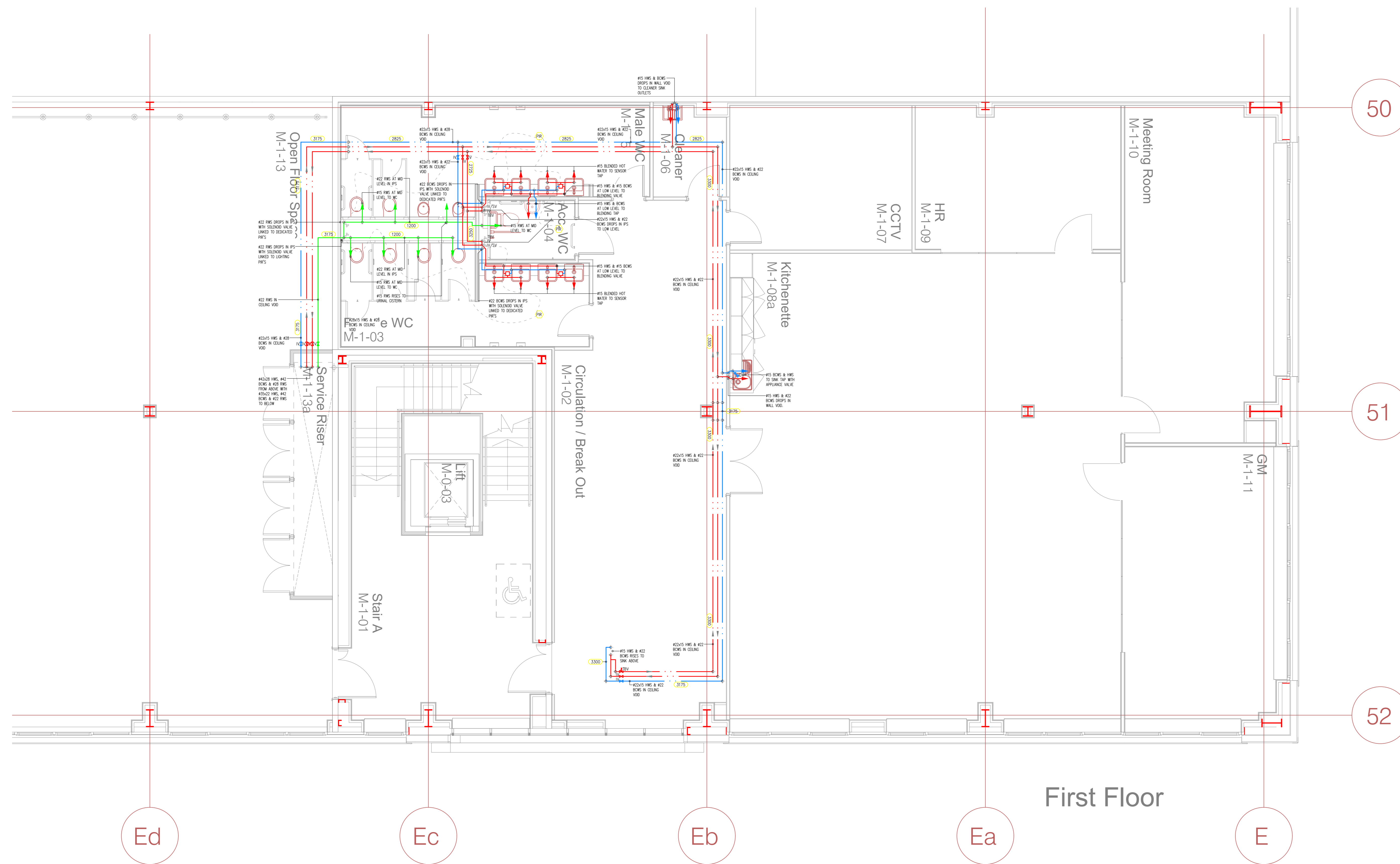
winvic

Title:
 Main Office First Floor
 Electric Heating Services
 Layout

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	11.03.24	L.S	L.S	J.M

Drawing No: P23027-WMB-MO-01-DR-M-0206

AS FITTED



- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- LEGEND**
- PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - PIPEWORK IN CEILING VOID
 - HWS HOT WATER SERVICE
 - MCWS MAINS COLD WATER SERVICE
 - RWS RAINWATER SERVICE
 - ISOLATING VALVE
 - PRESSURE REDUCING VALVE
 - LOCKSHIELD VALVE
 - DOUBLE CHECK VALVE
 - THERMAL BALANCING VALVE
 - WATER SOLENOID VALVE
 - BLENDED VALVE
 - EXPANSION VESSEL
 - PIPEWORK ANCHOR
 - HEIGHT TO CENTRE

First Floor

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8ES
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
**Main Office First Floor
 Domestic Water Services
 Layout**

Scale of A5	Date	Designed	Drawn	Design Check
1:50	11.02.24	L.S	L.S	J.M

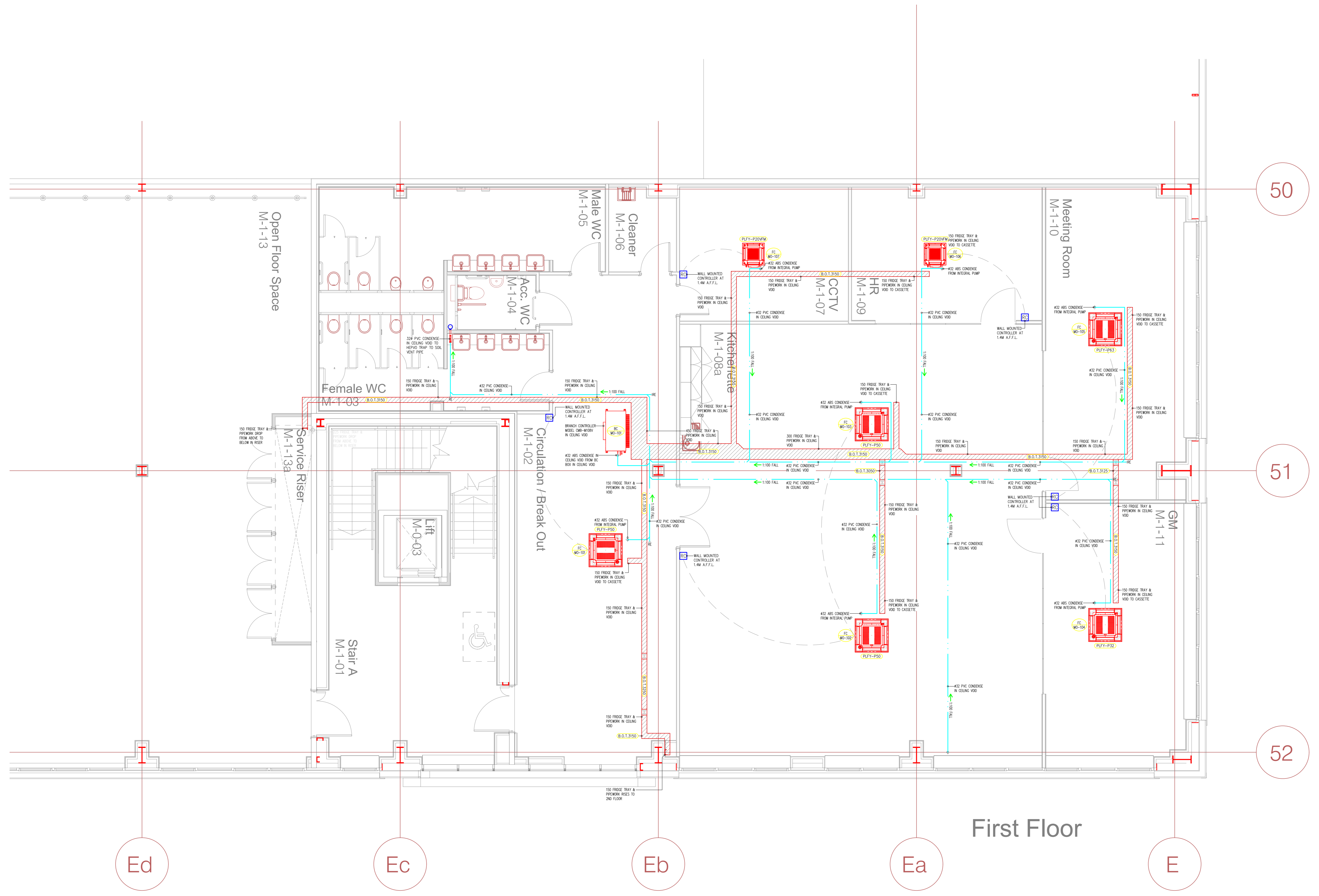
Drawing No:
P23027-WMB-MO-01-DR-M-0308

AS FITTED

REF NO	MHE	TYPE	MODEL	SERVING LOCATION	AIR CONDITIONING INDOOR UNIT SCHEDULE			HTG DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ACCESSORIES	ELEC SUPPLY
					PIPE SIZE (mm)	TOTAL COOLING (kW)	SENSIBLE COOLING (kW)						
FCUMD-101	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	FF BREAKOUT/ROLLATION	12.7mm - 6.35mm	5	4.1	6.3	2584x484x40	19	PAR-40MAA	230V-1PH-50HZ	
FCUMD-102	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	FF OPEN PLAN OFFICE	12.7mm - 6.35mm	5	4.1	6.3	2584x484x40	19	PAR-40MAA	230V-1PH-50HZ	
FCUMD-103	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	FF OPEN PLAN OFFICE	12.7mm - 6.35mm	5	4.1	6.3	2584x484x40	19	PAR-40MAA	230V-1PH-50HZ	
FCUMD-104	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	FF OFF OFFICE	12.7mm - 6.35mm	4	3.2	3.0	2584x484x40	19	PAR-40MAA	230V-1PH-50HZ	
FCUMD-105	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	FF MEETING ROOM	15.9mm - 9.5mm	6.4	4.9	8.0	2584x484x40	21	PAR-40MAA	230V-1PH-50HZ	
FCUMD-106	MITSUBISHI	4 WAY BLOW COMPACT CASSETTE	PLFY-MOVEM-E	FF OFF OFFICE	12.7mm - 6.35mm	2	1.6	2.5	2456x704x70	15	PAR-40MAA	230V-1PH-50HZ	
FCUMD-107	MITSUBISHI	4 WAY BLOW COMPACT CASSETTE	PLFY-MOVEM-E	FF CCTV OFFICE	12.7mm - 6.35mm	2	1.6	2.5	2456x704x70	15	PAR-40MAA	230V-1PH-50HZ	
FCUMD-201	MITSUBISHI	4 WAY BLOW CEILING CASSETTE	PLFY-MOVEM-E	SF TRAINING OFFICE	12.7mm - 6.35mm	4	3.2	3.0	2584x484x40	19	PAR-40MAA	230V-1PH-50HZ	
FCUMD-202	MITSUBISHI	WALL MOUNTED	PXA-M100KA2-TH	SF SERVER ROOM	15.9mm - 9.5mm	9.2	6.72	9.5	1170x265x295	21	PAR-40MAA	230V-1PH-50HZ	
FCUMD-203	MITSUBISHI	WALL MOUNTED	PXA-M100KA2-TH	SF SERVER ROOM	15.9mm - 9.5mm	9.2	6.72	9.5	1170x265x295	21	PAR-40MAA	230V-1PH-50HZ	

- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS.
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN UPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



First Floor

REV	DATE	DESCRIPTION	BY



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Plot 4000 STOWMARKET

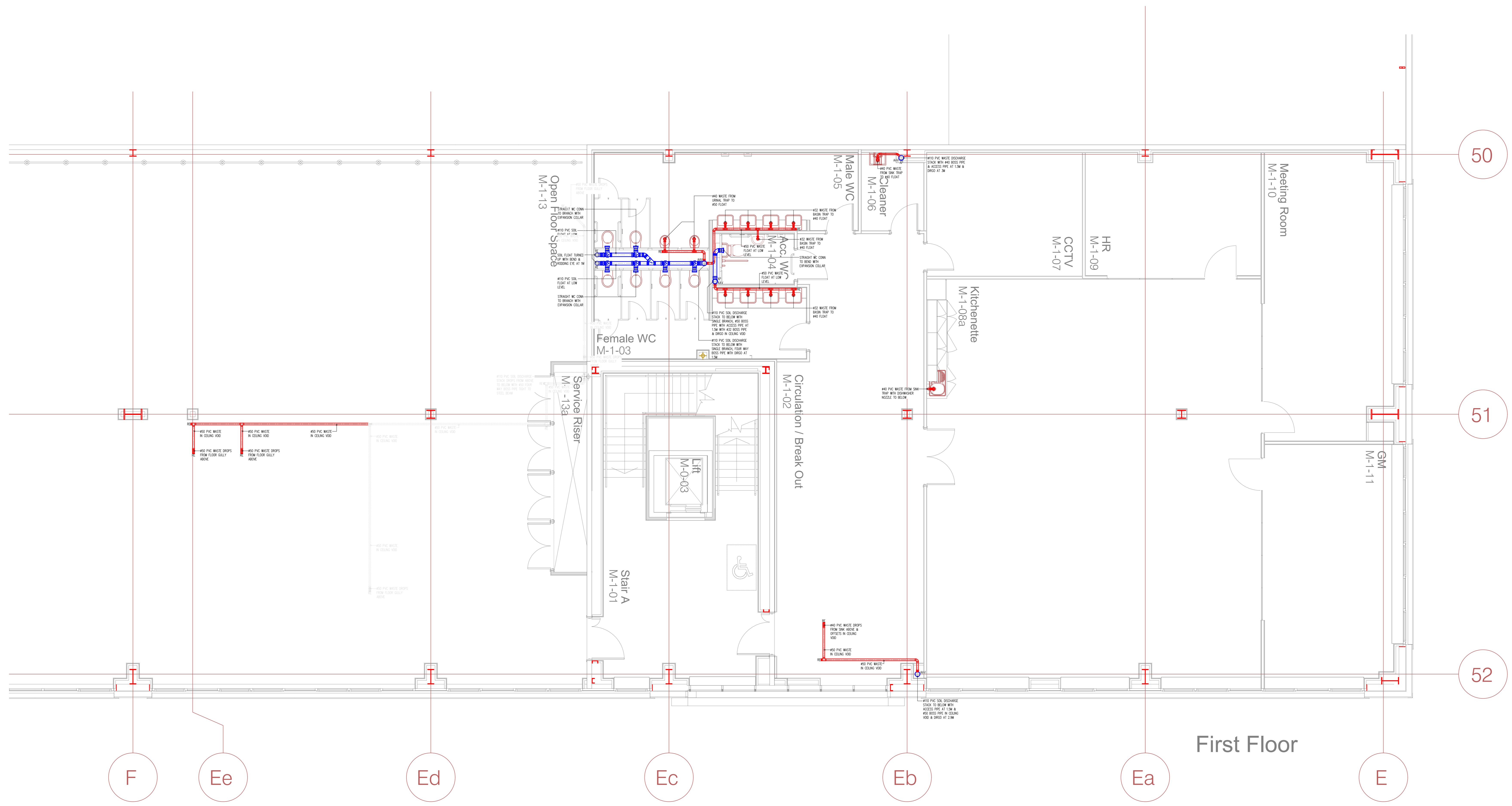
Client: **winvic**

Title: **Main Office First Floor VRF Heating & Cooling Services Layout**

Scale at A3: 1:50 Date: 26-02-24 Designed: L.S. Drawn: L.S. Design Check: J.M.
 Drawing No: P23027-WMB-MO-01-DR-M-0408 Rev: -

AS FITTED

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS & SCHEDULES.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES SCHEDULES & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALE.
 4. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT BUILDING SERVICES SCHEDULES & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 6. ADDITIONAL ACCESS IS PROVIDED TO ALL STAIRS AT EACH LEVEL, LOW LEVEL.
 7. WINDOW FALLS ON UNGLAZED AND UNVENTILATED PERIPHERY AS THE GLAZING.
 8. FIRE COLLARS ARE FITTED ON ALL PERIPHERY RISERS AND PASSING THROUGH FIRE WALLS AND FLOORS.
- | APPLIANCE | FALLS |
|---------------------|-------------|
| SINGLE WASH BASIN | 1.05 - 1.14 |
| MULTIPLE WASH BASIN | 1.55 - 1.22 |
| SINGLE URINAL | 1.55 - 1.11 |
| MULTIPLE URINAL | 1.55 - 1.11 |
| WATER SINK | 1.55 |
| WC | MIN 1.05 |
| MULTIPLE WC | 1.05 - 1.11 |



REV	DATE	DESCRIPTION	BY



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Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

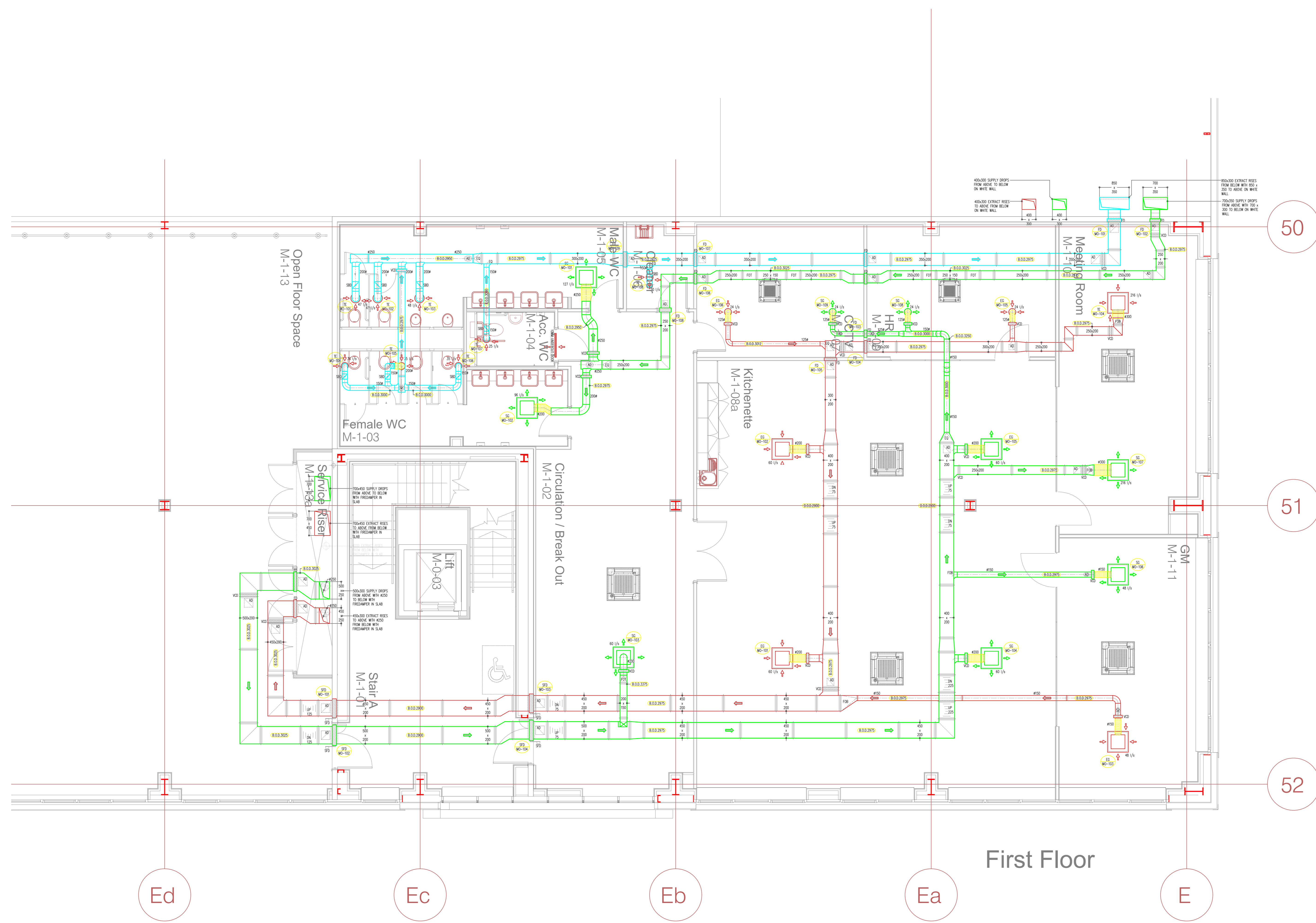
Client: **winvic**

Title: **Main Office First Floor
 Public Health Services
 Layout**

Scale of A5	Date	Designed	Drawn	Design Check
1:50	11.02.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-MO-01-DR-M-0508** Rev: -

AS FITTED



First Floor

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 6. ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS.
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH.

LEGEND

	CEILING MOUNTED FOUR WAY LOUVRE
	CEILING RETURN AIR GRILLE/SUPPLY DIFFUSER
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR GRILLE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/N ACCESS DOOR
	WIDE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM (A BMS) C/N ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES (SHOWN HATCHED)

REV	DATE	DESCRIPTION	BY

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BES **REACT** **REA**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

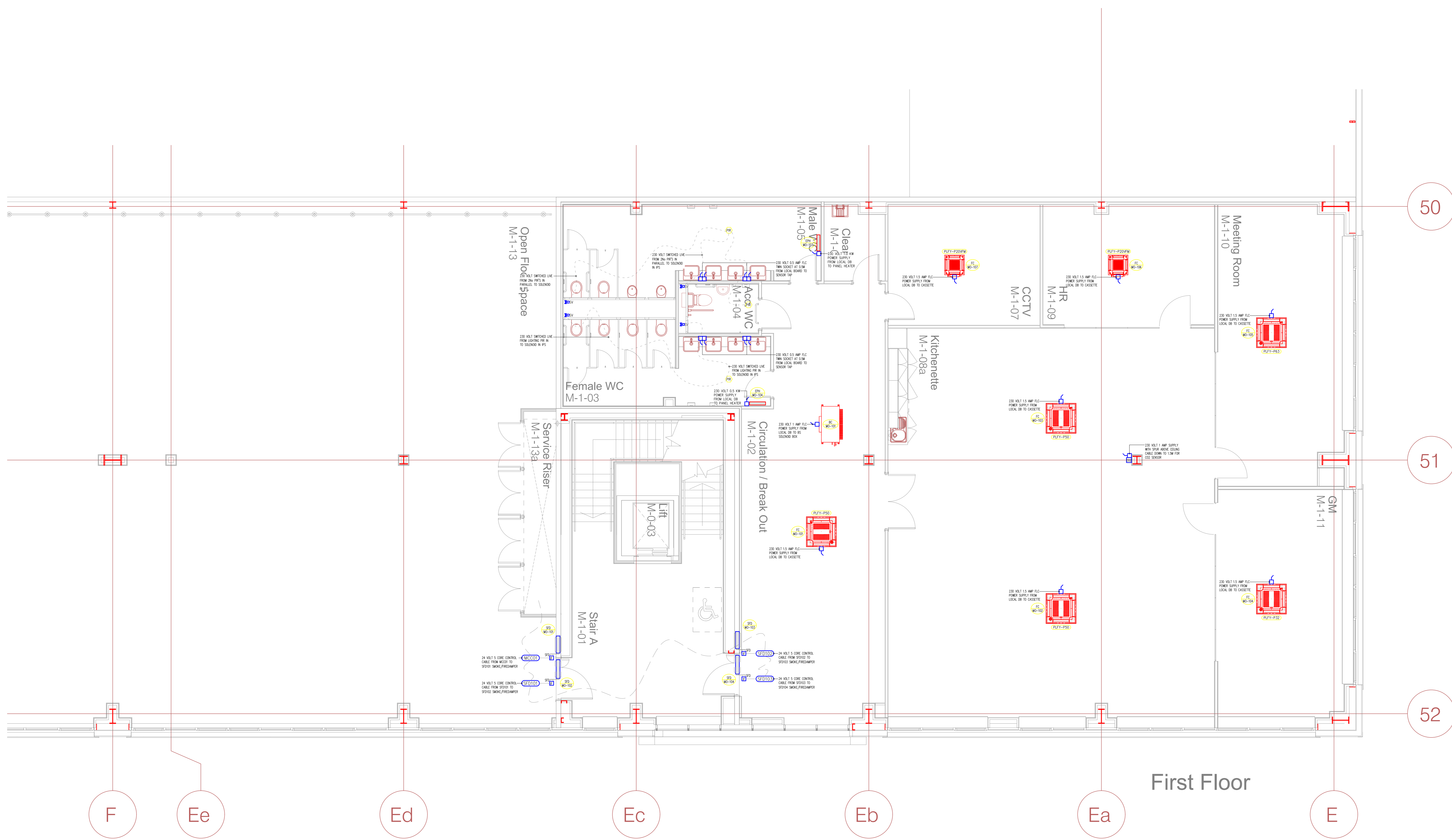
Client:
winvic

Title:
**Main Office First Floor
 Ventilation Services
 Layout**

Scale of A5:	Date:	Designed:	Drawn:	Design Check:
1:50	26-02-24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-MO-01-DR-M-0608	-			

AS FITTED

- NOTES**
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 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS.
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS.



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

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 Web: www.wmbuildingservices.com

BES, ISO 9001, ISO 14001, REA

Project: **The Range**
 Home, Leisure & Garden
 PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Main Office First Floor Mechanical Power & Controls Wiring**

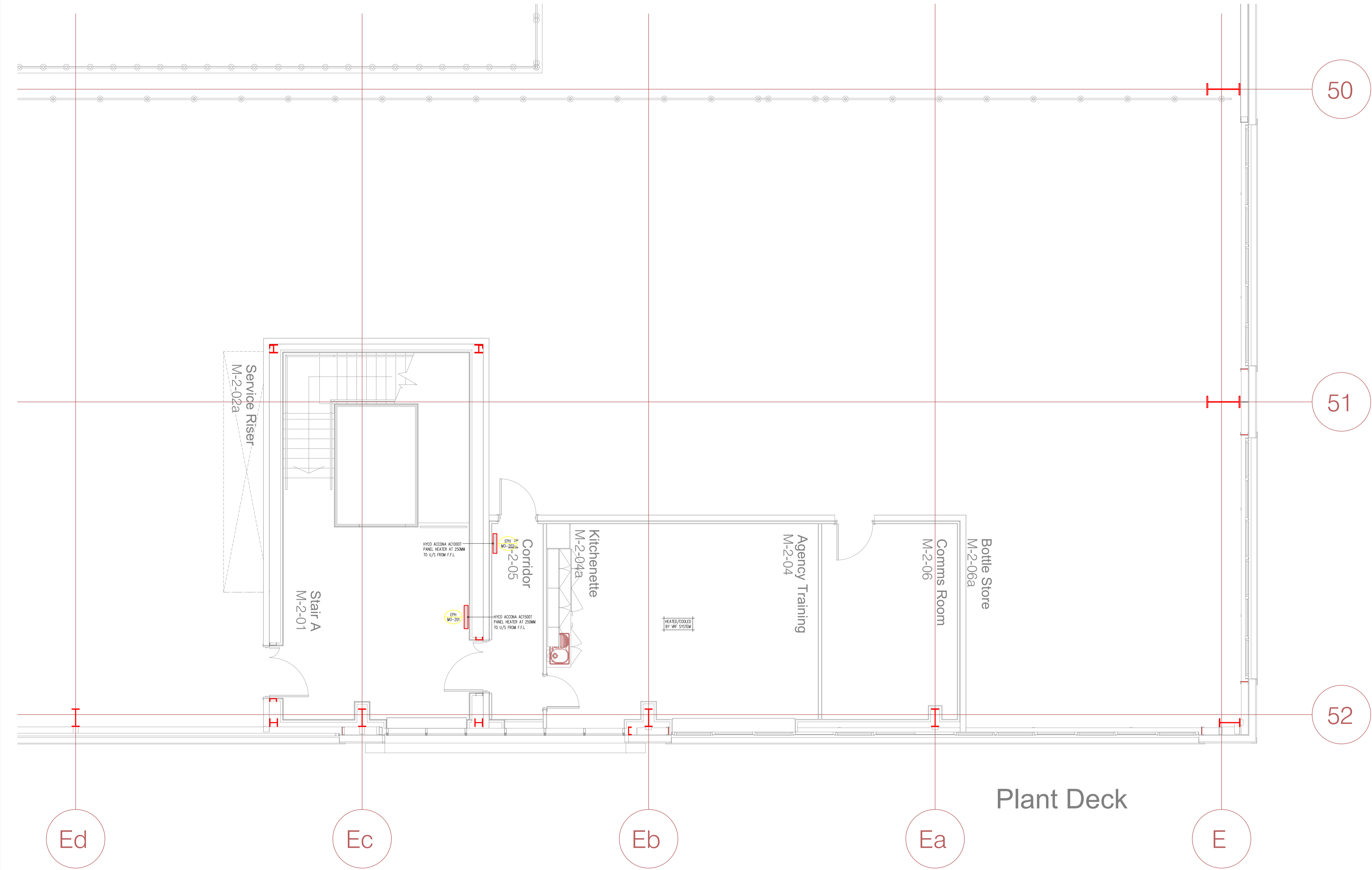
Scale	As	Date	Designed	Drawn	Design Check
1:50	18.09.24	L.S.	L.S.	J.M.	J.M.

Drawing No: P23027-WMB-MO-01-DR-M-0909
 Rev: -

AS FITTED

ELECTRIC HEATER SCHEDULE											
REF NO.	MAKE	TYPE	MODEL	LOCATION / SERVING	POWER (W)	OVERALL SIZE (mm)	CONTROL	ACCESSORIES	WEIGHT (kg)	CURRENT (A)	ELEC. SUPPLY
EPH-MO-001	HYCO	ACCONA	AC1000T	GF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-002	HYCO	ACCONA	AC1500T	GF KITCHEN CORRIDOR	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-MO-003	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-004	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-MO-005	HYCO	ACCONA	AC1000T	GF WELCOME ROOM	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-006	HYCO	ACCONA	AC1000T	GF MALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-007	HYCO	ACCONA	AC1000T	GF FEMALE SHOWERS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-008	ATLANTIC	LST	AH25449	GF ACC SHOWER	500	832Wx430Hx63D	INTEGRAL TIME/TEMP	-	5.5	2.2	230V 1Ph 50Hz
EPH-MO-101	HYCO	ACCONA	AC1000T	FF STAIRS	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-102	HYCO	ACCONA	AC2000T	FF STAIR/CIRCULATION	2000	830Wx400Hx60D	INTEGRAL TIME/TEMP	-	5.7	8.8	230V 1Ph 50Hz
EPH-MO-103	HYCO	ACCONA	AC1000T	GF MALE TOILET	1000	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	4.4	230V 1Ph 50Hz
EPH-MO-104	HYCO	ACCONA	AC500T	GF FEMALE TOILET	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz
EPH-MO-201	HYCO	ACCONA	AC1500T	SF STAIR	1500	590Wx400Hx60D	INTEGRAL TIME/TEMP	-	4.7	6.6	230V 1Ph 50Hz
EPH-MO-202	HYCO	ACCONA	AC500T	SF AGENCY CORRIDOR	500	460Wx400Hx60D	INTEGRAL TIME/TEMP	-	3.4	2.2	230V 1Ph 50Hz

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL PANEL HEATERS FITTED WITH INTEGRAL TIME AND TEMPERATURE CONTROLS



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
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 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
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BES
 REA

Project:

The RANGE
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

Client:

winvic

Title:
**Main Office Second Floor
 Electric Heating Services
 Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	11.03.24	L.S	L.S	J.M

Drawing No:	Rev:
P23027-WMB-MO-02-DR-M-0207	-

AS FITTED

BOOSTER SET												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Ph)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	FLC (A)	POWER (W)	ELEC. SUPPLY
CWB-MO-201	DUTYPOINT SYSTEMS	INVERTER DRIVEN TWIN PUMP WITH BREAK TANK	WX2-5040-2250	MAIN OFFICE	2.4	3	40	2250 ACTUAL	1160(w) x 2000(d) x 1914(h)	10	1.5 (TOTAL)	230V 1Ph 50Hz

AIR SOURCE HEAT PUMP SCHEDULE																	
Ref	Room Name	Make	Model	Type	Design Load (kW)	Max Working Pressure (bar)	Flow Rate (l/s)	Head Temp (°C)	Max Flow Rate (l/s)	Integral Pump	Exp Vessel	Integral Safety Valve	Weight (kg)	Overhead/Underhead/Cascade	Power Requirements	Running Current	Comments etc.
ASHP-MO-201	Plantroom	ADVECO	FRS2-12	R32	11.67	4	55	50	0.55	Yes	External	Yes	85	DUTY	1Ph-230V-50Hz	18A	LINKED TO FUSION T CYLINDER
ASHP-MO-202	Plantroom	ADVECO	FRS2-12	R32	11.67	4	55	50	0.55	Yes	External	Yes	85	DUTY	1Ph-230V-50Hz	18A	

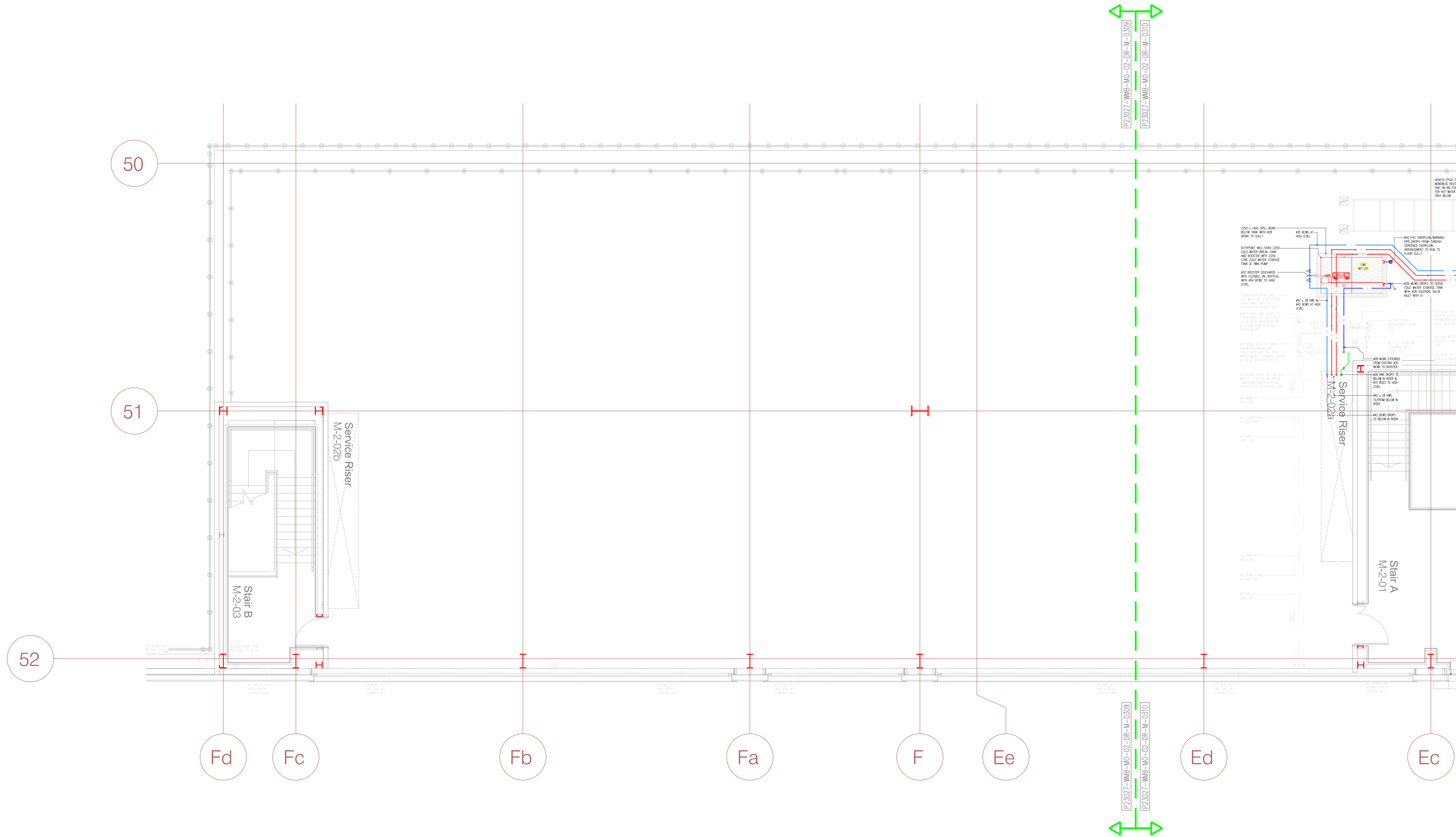
PUMP SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	CONNECTION SIZE	LINE SIZE	DUTY	HEAD	FLOW TEMP	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HWP-MO-201	GRUNDFOS	STAINLESS WRAS APPROVED CIRCULATOR	UPS 25-80N	HWSR	250	220	0.143	34	55-60	0.7	4.4	230V 1Ph 50Hz

HOT WATER CYLINDER SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Ph)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	FLC (A)	POWER (W)	ELEC. SUPPLY
HWS-MO-201	ADVECO	500 LITRE INDIRECT TWIN COIL CALORIFIER	FUSION T AT 500	OFFICE	2.4	3	40	2250 ACTUAL	1160(w) x 2000(d) x 1914(h)	10	1.5 (TOTAL)	230V 1Ph 50Hz

HOT WATER CYLINDER SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Ph)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	FLC (A)	POWER (W)	ELEC. SUPPLY
HWS-MO-202	ADVECO	500 LITRE INDIRECT TWIN COIL CALORIFIER	FUSION T AT 500	OFFICE	2.4	3	40	2250 ACTUAL	1160(w) x 2000(d) x 1914(h)	10	1.5 (TOTAL)	230V 1Ph 50Hz

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- LEGEND**
- PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - PIPEWORK IN CEILING VOID
 - HWS HOT WATER SERVICE
 - MCWS MAINS COLD WATER SERVICE
 - RWS RAINWATER SERVICE
 - IV ISOLATING VALVE
 - PRV PRESSURE REDUCING VALVE
 - LV LOCKSHIELD VALVE
 - DCV DOUBLE CHECK VALVE
 - TV THERMAL BALANCING VALVE
 - WV WATER SOLENOID VALVE
 - BV BLENDING VALVE
 - EXPANSION VESSEL
 - PIPEWORK ANCHOR
 - HEIGHT TO CENTRE



REV	DATE	DESCRIPTION	BY



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Client: **winvic**

Title: **Main Office Second Floor Plant Deck Domestic Water Services Layout Sht 1 of 2**

Scale of A5	Date	Designed	Drawn	Design Check
1:50	11.02.24	L.S	L.S	J.M

Drawing No: P23027-WMB-MO-02-DR-M-0309

AS FITTED

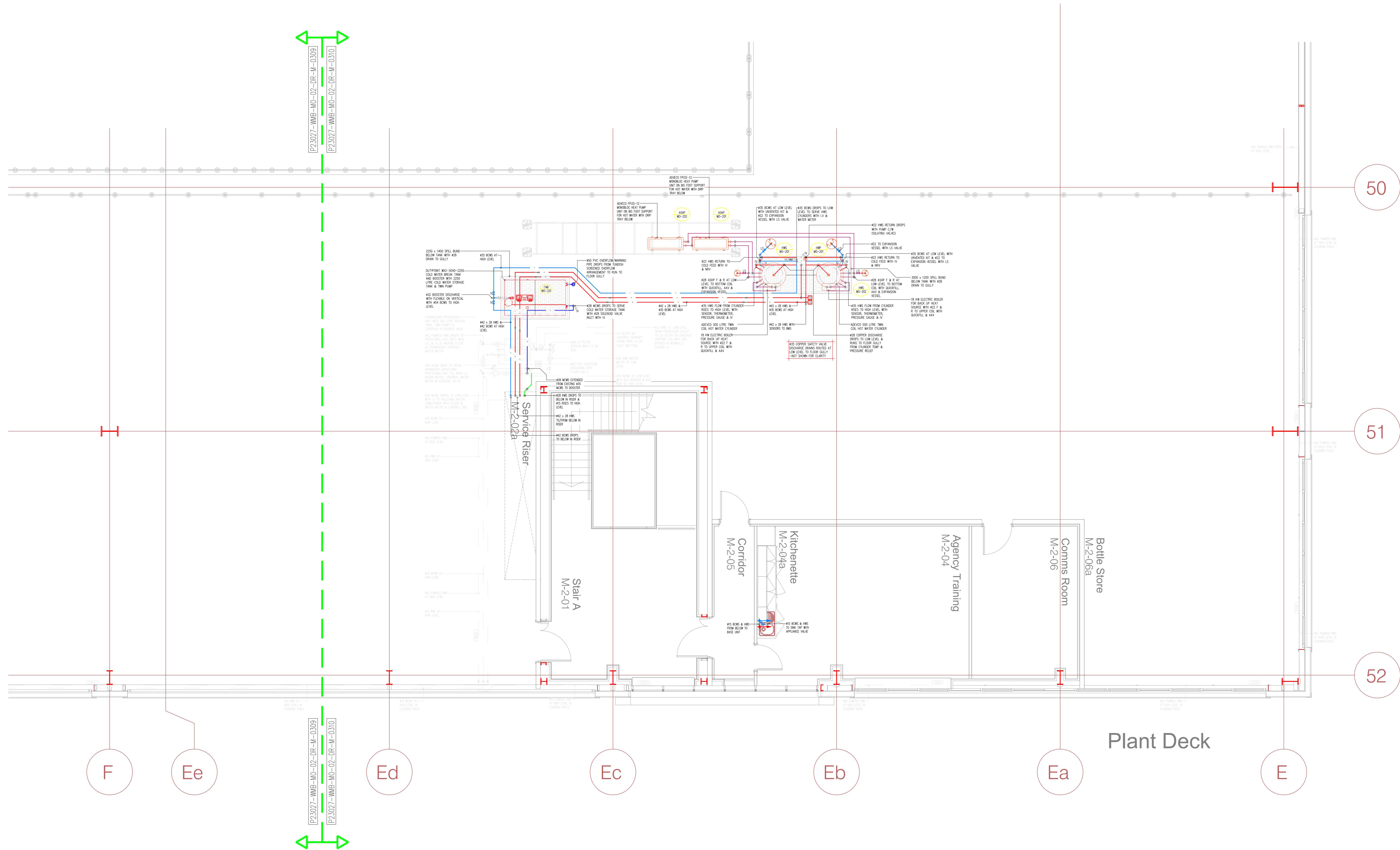
BOOSTER SET												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Hrs)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	F/LC (A)	POWER (W)	ELEC. SUPPLY
CWB-MO-201	DUTYPOINT SYSTEMS	INVERTER DRIVEN TWIN PUMP WITH BREAK TANK	WX2-5040-2250	MAIN OFFICE	2.4	3	40	2250 ACTUAL	1160(W) x 2000(D) x 1914(H)	10	1.5 (TOTAL)	230V 1Ph 50Hz

AIR SOURCE HEAT PUMP SCHEDULE												
Ref	Room Name	Make	Model	Type	Design Load (kW)	No. Working Pumps (No. Cl)	Flow Rate (l/s)	Return Temp (°C)	Max Flow Rate (l/s)	Integral Pump	Exp. Vessel	Integral Safety Vlt
ASP-MO-201	Plantroom	ADVECO	FP82-12	R32	11.67	4	55	50	0.55	Yes	External	Yes
ASP-MO-202	Plantroom	ADVECO	FP82-12	R32	11.67	4	55	50	0.55	Yes	External	Yes

PUMP SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	CONNECTION SIZE	LINE SIZE (mm)	DUTY (Hrs)	HEAD (Bar)	FLOW TEMP (°C)	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HWP-MO-201	GRUNDFOS	STAINLESS WRAS APPROVED CIRCULATOR	UPS 25-80N	HWSR	250	220	0.143	34	55-60	0.7	4.4	230V 1Ph 50Hz

HOT WATER CYLINDER SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Hrs)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	F/LC (A)	POWER (W)	ELEC. SUPPLY
HVS-MO-201	ADVECO	500 LITRE INDIRECT TWIN COIL CALORIFIER	FUSION T ATST 500	OFFICE	2	3	40	2250 ACTUAL	1160(W) x 2000(D) x 1914(H)	10	1.5 (TOTAL)	230V 1Ph 50Hz

HOT WATER CYLINDER SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	SERVING	DUTY (Hrs)	DISCHARGE HEAD (Bar)	LINE SIZE (mm)	TANK SIZE	OVERALL SIZE (mm)	F/LC (A)	POWER (W)	ELEC. SUPPLY
HWS-MO-202	ADVECO	500 LITRE INDIRECT TWIN COIL CALORIFIER	FUSION T ATST 500	OFFICE	2	3	40	2250 ACTUAL	1160(W) x 2000(D) x 1914(H)	10	1.5 (TOTAL)	230V 1Ph 50Hz



- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & RWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

- LEGEND**
- PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - PIPEWORK IN CEILING VOID
 - HWS HOT WATER SERVICE
 - MCWS MAINS COLD WATER SERVICE
 - RWS RAINWATER SERVICE
 - IV ISOLATING VALVE
 - PRV PRESSURE REDUCING VALVE
 - LV LOCKSHIELD VALVE
 - BV DOUBLE CHECK VALVE
 - SWV THERMAL BALANCING VALVE
 - BV WATER SOLENOID VALVE
 - BV BLENDING VALVE
 - AV EXPANSION VESSEL
 - AV PIPEWORK ANCHOR
 - HEIGHT TO CENTRE

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
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 LE4 8BB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Main Office Second Floor Plant Deck Domestic Water Services Layout Sht 2 of 2**

Scale of A5:	Date:	Designed:	Drawn:	Design Check:
1:50	11/25/24	L.S	L.S	J.M

Drawing No: **P23027-WMB-MO-02-DR-M-0310**

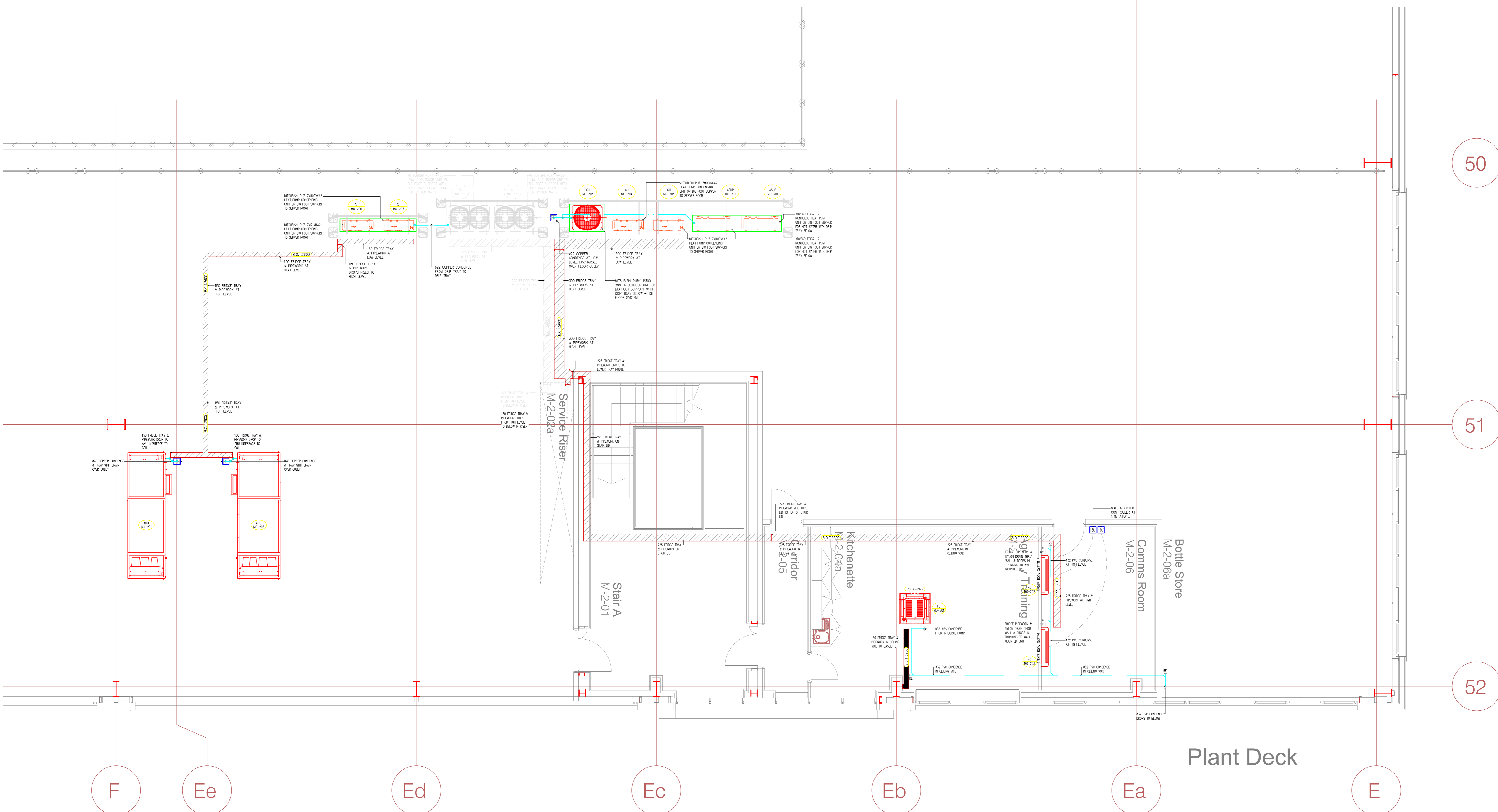
AS FITTED

AIR CONDITIONING OUTDOOR UNIT SCHEDULE													
REF NO	MAKE	TYPE	MODEL	SERVING	PIPE SIZE (Gas/Liquid)	MAX VERTICAL RISE (m)	MAX EQVY LENGTH (m)	COOLING DUTY (kW)	HTG DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	ACCESSORIES	ELEC SUPPLY
CJ-MO-201	mitsubishi	CITY MULTI HEAT RECOVERY VRF	PURV-P450YVW-A1	GROUND FLOOR SYSTEM 1	28.6/22.2	40	165	44.8	96	1240/740x1858	289	2In CMB-M1012V (12WAY) BS SOLENOID BOXES	415V 50Hz 3ph
CJ-MO-202	mitsubishi	CITY MULTI HEAT RECOVERY VRF	PURV-P450YVW-A1	GROUND FLOOR SYSTEM 2	28.6/22.2	40	165	44.8	96	1240/740x1858	289		415V 50Hz 3ph
CJ-MO-203	mitsubishi	CITY MULTI HEAT RECOVERY VRF	PURV-P300YVW-A2	FIRST FLOOR SYSTEM	22.2/19.05	40	165	30	28.7	920/740x1858	229	1In CMB-M108V (8WAY) BS SOLENOID BOXES	415V 50Hz 3ph
CJ-MO-204	mitsubishi	R32 DX HEAT PUMP	PLUZM100KA2	SF SERVER ROOM	15.9/9.5	30	100	9.2	9.5	1050/330x1338	105	MELCO RETAIL MIN BMS INTERFACE & PAR41-MAA CONTROLLER	230V 50Hz 1ph
CJ-MO-205	mitsubishi	R32 DX HEAT PUMP	PLUZM100KA2	SF SERVER ROOM	15.9/9.5	30	100	9.2	9.5	1050/330x1338	105	MELCO RETAIL MIN BMS INTERFACE & PAR41-MAA CONTROLLER	230V 50Hz 1ph
CJ-MO-206	mitsubishi	R32 DX HEAT PUMP	PLUZM11VH2	AHU-MO-201 TOILET LOCKERS DX COOL	15.9/9.5	30	55	7.1	8	950/330x953	70	PAC-IF013B-E AHU CONTROLLER	230V 50Hz 1ph
CJ-MO-207	mitsubishi	R32 DX HEAT PUMP	PLUZM100KA2	AHU-MO-203 CANTINEEN DX COOL	15.9/9.5	30	100	9.2	9.5	1050/330x1338	105	PAC-IF013B-E AHU CONTROLLER	230V 50Hz 1ph

AIR CONDITIONING INDOOR UNIT SCHEDULE													
REF NO	MAKE	TYPE	MODEL	SERVING / LOCATION	PIPE SIZE (Gas/Liquid)	TOTAL COOLING DUTY (kW)	SENSIBLE COOLING DUTY (kW)	HTG DUTY (kW)	OVERALL SIZE (mm)	WEIGHT (kg)	CONTROL	ACCESSORIES	ELEC SUPPLY
FCU-MO-101	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	FF BREAKOUT/CIRCULATION	12.7mm - 8.35mm	5	4.1	6.3	2584/404/840	19	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-102	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	FF OPEN PLAN OFFICE	12.7mm - 8.35mm	5	4.1	6.3	2584/404/840	19	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-103	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	FF OPEN PLAN OFFICE	12.7mm - 8.35mm	5	4.1	6.3	2584/404/840	19	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-104	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	FF QM OFFICE	12.7mm - 8.35mm	4	3.2	3.0	2584/404/840	19	PAR-K0MAA	AES00 CENTRAL CONTROLLER	230V-1Ph-50Hz
FCU-MO-105	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	FF MEETING ROOM	15.9mm - 9.5mm	6.8	4.8	6.0	2584/404/840	21	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-106	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VEM-E	FF HR OFFICE	12.7mm - 8.35mm	2	1.6	2.5	2454/704/670	15	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-107	mitsubishi	4 WAY BLOW COMPACT CASSETTE	PLFY-M50VEM-E	FF CCTV OFFICE	12.7mm - 8.35mm	2	1.6	2.5	2454/704/670	15	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-201	mitsubishi	4 WAY BLOW CEILING CASSETTE	PLFY-M50VEM-E	SF TRAINING OFFICE	12.7mm - 8.35mm	4	3.2	3.0	2584/404/840	19	PAR-K0MAA		230V-1Ph-50Hz
FCU-MO-202	mitsubishi	WALL MOUNTED	PKA-M100KA2 TH	SF SERVER ROOM	15.9mm - 9.5mm	9.2	6.72	9.5	1170/365/626	21	PAR-K0MAA	PROCON M300/REMS	230V-1Ph-50Hz
FCU-MO-203	mitsubishi	WALL MOUNTED	PKA-M100KA2 TH	SF SERVER ROOM	15.9mm - 9.5mm	9.2	6.72	9.5	1170/365/626	21	PAR-K0MAA	PROCON M300/REMS	230V-1Ph-50Hz

- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL REFRIGERATION PIPEWORK INSTALLED TO MITSUBISHI SCHEMATIC DRAWINGS & REQUIREMENTS.
 - PIPEWORK INSULATED WITH 13MM ARMAFLEX INSULATION WITH ALL JOINTS VAPOUR SEALED.
 - CONDENSE PIPEWORK INSTALLED TO A MIN FALL OF 1:100 IN UPVC PIPEWORK WITH SOLVENT JOINT SYSTEM.

LEGEND	
	CEILING FOUR WAY CASSETTE
	CEILING MOUNTED BRANCH SELECTOR BOX
	AIR CONDITIONING DRY TAP
	AIR CONDITIONING REFRIGERATION TRAY
	AIR CONDITIONING WALL MOUNTED CONTROLLER



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
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 Leicester
 LE4 8EE
 Tel: (0116) 311 2477
 Fax: (0116) 300 9537
 Email: office@wmbs.com
 www.wmbs.com

Plot 4000 STOWMARKET

winvic

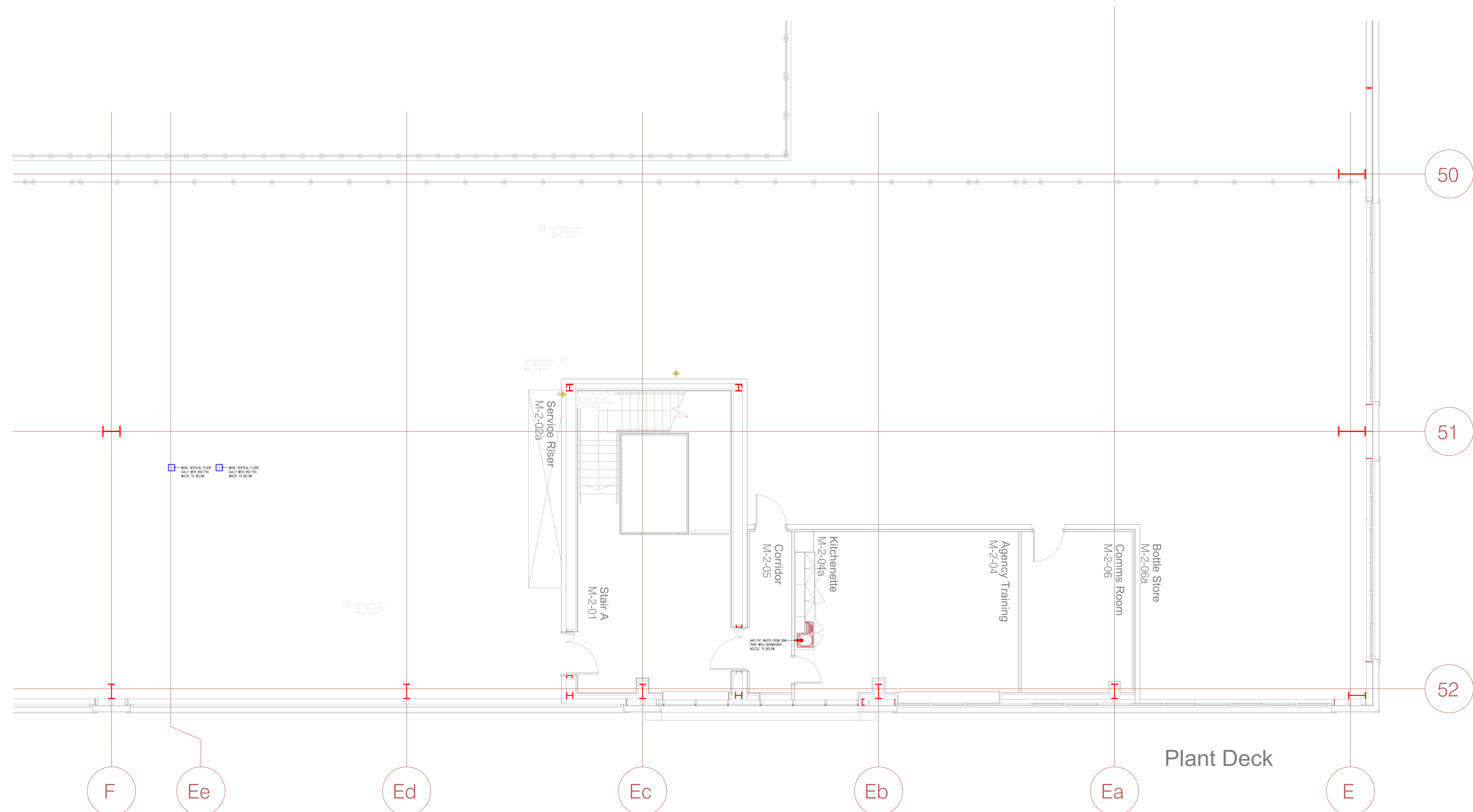
Title:
Main Office Second Floor
Plant Deck VRF Heating & Cooling Services Layout

Scale of A5:	Date:	Designed:	Drawn:	Design Check:
1:50	11.02.24	L5	L5	J.M

Drawing No: P23027-WMB-MO-02-DR-M-0409

AS FITTED

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT BUILDING SERVICES DRAWINGS & THE BUILDING SECTION OF THE SPECIFICATION & SCHEDULES.
 6. ACCESS IS PROVIDED TO ALL STAIRS AT EACH LEVEL, UNLESS OTHERWISE STATED.
 7. WINDOW FALLS ON UNVENTILATED AND UNVENTILATED PERIMETER AT THE CEILING.
 8. FIRE COLLARS ARE FITTED ON ALL PERIMETER RISERS AND PASSING THROUGH FIRE WALLS AND FLOORS.
- | APPLIANCE | FALLS |
|---------------------|-------------|
| SINGLE WASH BASIN | 1.00 - 1.41 |
| MULTIPLE WASH BASIN | 1.50 - 1.22 |
| SINGLE URINAL | 1.50 - 1.11 |
| MULTIPLE URINAL | 1.50 - 1.11 |
| WATER SINK | 1.50 |
| WC | MIN 1.03 |
| MULTIPLE WC | 1.03 - 1.11 |



REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
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 Leicester
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 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Main Office Second Floor
 Plant Deck Public Health
 Services Layout**

Scale of A5	Date	Designed	Drawn	Design Check
1:50	11.05.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-MO-02-DR-M-0509** Rev: -

AS FITTED

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/HP)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-201	TOILETS/LOCKERS	YES ANDOVER	HEAT RECOVERY	MAX24/SP/S	1.354 @ 300 Pa	1.620 @ 300 Pa	1.64	2.1 KW SUPPLY FAN MOTOR/2.1 KW EXTRACT FAN MOTOR	3850x1500x1750	837.3	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: MOTORISED PALET DAMPER/2x FAN FILTER/2x BAG FILTER/HEAT EXCHANGER/2x SUPPLY FAN/HEAT RECOVERY COIL. EXTRACT SIDE: MOTORISED PALET DAMPER/1x FAN FILTER/HEAT EXCHANGER/2x EXTRACT FAN MOTOR/2x BAG FILTER/2x FAN MOTOR	3ph - 415V - 50Hz

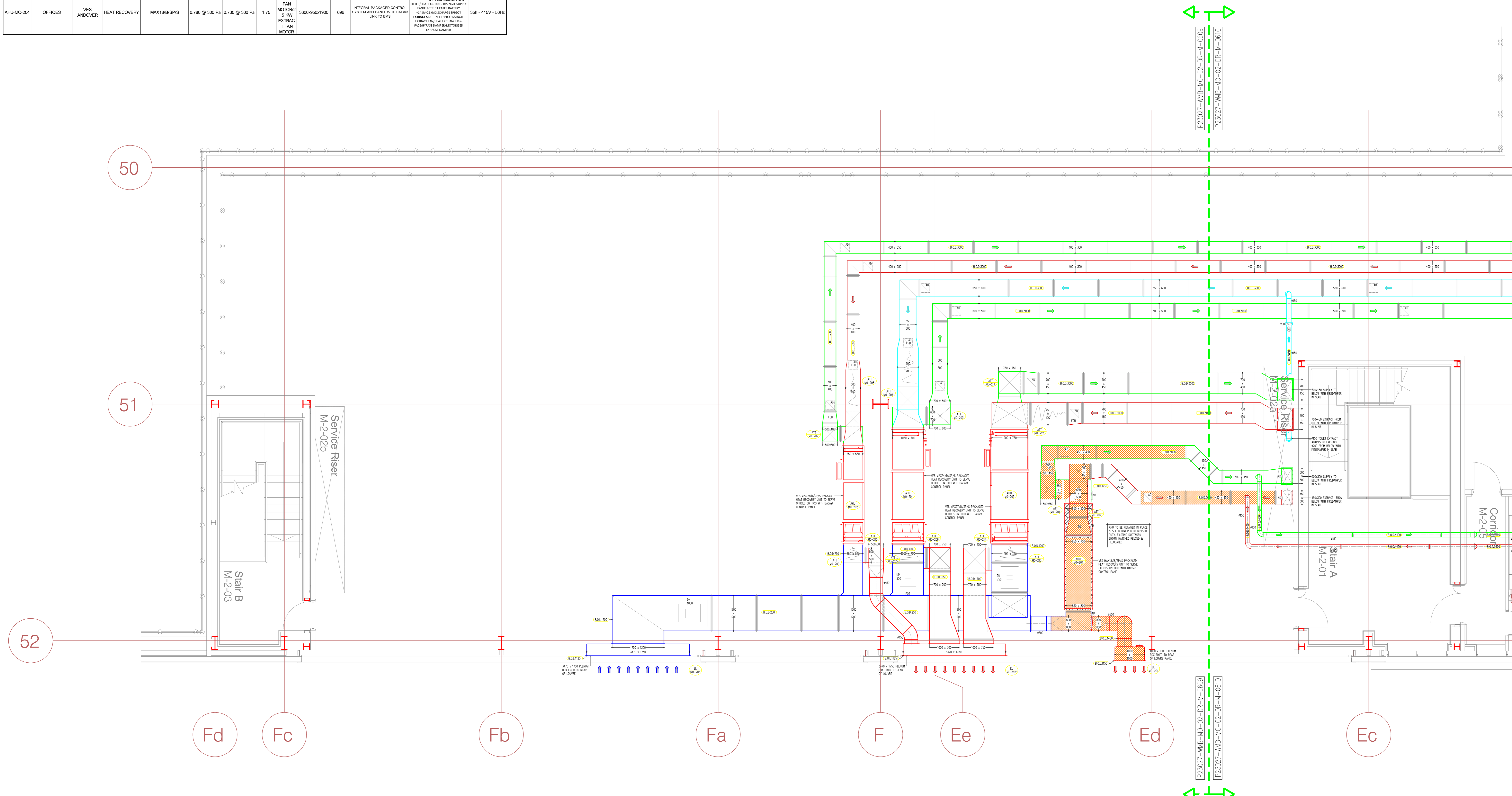
AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/HP)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-202	CANTEEN	YES ANDOVER	HEAT RECOVERY	MAX27/D/SP/S	1.834 @ 300 Pa	1.810 @ 300 Pa	1.95	3.5 KW SUPPLY FAN MOTOR/3.0 KW EXTRACT FAN MOTOR	3850x1300x1800	942	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: MOTORISED PALET DAMPER/2x FAN FILTER/2x BAG FILTER/HEAT EXCHANGER/2x SUPPLY FAN/HEAT RECOVERY COIL. EXTRACT SIDE: MOTORISED PALET DAMPER/1x FAN FILTER/HEAT EXCHANGER/2x EXTRACT FAN MOTOR/2x BAG FILTER/2x FAN MOTOR	3ph - 415V - 50Hz

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/HP)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-203	GYM	YES ANDOVER	HEAT RECOVERY	MAX9/B/SP/S	0.880 @ 275 Pa	0.650 @ 275 Pa	1.82	3.0 KW SUPPLY FAN MOTOR/3.0 KW EXTRACT FAN MOTOR	3300x750x1300	542	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: MOTORISED PALET DAMPER/2x FAN FILTER/2x BAG FILTER/HEAT EXCHANGER/2x SUPPLY FAN/HEAT RECOVERY COIL. EXTRACT SIDE: MOTORISED PALET DAMPER/1x FAN FILTER/HEAT EXCHANGER/2x EXTRACT FAN MOTOR/2x BAG FILTER/2x FAN MOTOR	3ph - 415V - 50Hz

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/HP)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-204	OFFICES	YES ANDOVER	HEAT RECOVERY	MAX18/B/SP/S	0.780 @ 300 Pa	0.730 @ 300 Pa	1.75	2.8 KW SUPPLY FAN MOTOR/2.5 KW EXTRACT FAN MOTOR	3600x650x1900	698	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: MOTORISED PALET DAMPER/2x FAN FILTER/2x BAG FILTER/HEAT EXCHANGER/2x SUPPLY FAN/HEAT RECOVERY COIL. EXTRACT SIDE: MOTORISED PALET DAMPER/1x FAN FILTER/HEAT EXCHANGER/2x EXTRACT FAN MOTOR/2x BAG FILTER/2x FAN MOTOR	3ph - 415V - 50Hz

DISTRIBUTION OFFICE 2 ATTENUATOR SCHEDULE										
REF NO.	MAKE	TYPE	MODEL	SERVING	DESIGN FLOW (L/s)	PRESS. LOSS (Pa)	TARGET NR.	LENGTH (mm)	CONN. SIZE (mm/INCH)	WEIGHT (kg)
ATT-MO-201	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-204 SUPPLY	0.78	30	38	1200	500x500	58
ATT-MO-202	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-204 EXTRACT	0.73	30	38	1200	500x500	58
ATT-MO-203	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-201 SUPPLY	1.354	30	38	1200	700x700	98
ATT-MO-204	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-201 EXTRACT	1.62	30	38	1200	700x700	76
ATT-MO-205	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-202 FRESH AIR	1.354	30	38	600	1000x700	54
ATT-MO-206	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-202 EXHAUST	1.62	30	38	600	700x700	41
ATT-MO-207	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-203 SUPPLY	1.834	30	38	1200	750x750	65
ATT-MO-208	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-203 EXTRACT	1.81	30	38	1200	750x750	54
ATT-MO-209	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-203 FRESH AIR	1.834	30	38	600	1200x750	42
ATT-MO-210	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-203 EXHAUST	1.81	30	38	600	750x750	34
ATT-MO-211	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-203 SUPPLY	0.65	30	38	1200	500x500	42
ATT-MO-212	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-203 EXTRACT	0.65	30	38	1200	500x500	42
ATT-MO-213	ALLAWAY	RECTANGULAR	SLG	AHJ-MO-203 FRESH AIR	0.65	30	38	600	550x550	29
ATT-MO-214	ALLAWAY	RECTANGULAR	SLGJ	AHJ-MO-203 EXHAUST	0.65	30	38	600	550x550	24

EXTRACT FAN SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	DESIGN DUTY (m³/s)	SFP (W/HP)	CONTROL	FLC (A)	POWER (W)	ELEC. SUPPLY
EF-MO-201	HELIDIS	CENTRIFUGAL FAN	SVR EC 125	0.096 @ 125 Pa	0.5		0.9	0.12	230V 1Ph 50Hz



- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILING.
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 55MM TO ALLOW INSULATION TO PASS THROUGH.

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE (FRESH RETURN AIR GRILLE/SUPPLY DIFFUSER)
	EXPOSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR GRILLE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/N ACCESS DOOR
	M.A.B.G. C/N ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES (SHOWN HATCHED)

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Leicester
 LE4 8EE
 Tel: (0116) 311 2477
 Fax: (0116) 300 9537
 Email: office@wmbuildingservices.com
 www.wmbuildingservices.com

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Main Office Second Floor Plant Deck Ventilation Services Layout Sht 1 of 2**

Scale of A6	Date: 11/02/24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-MO-02-DR-M-0609	Rev: -			

AS FITTED

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/PS)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-201	TOILETS/LOCKERS	YES ANDOVER	HEAT RECOVERY	MAX241/SP/S	1.354 @ 300 Pa	1.620 @ 300 Pa	1.64	2.1 KW SUPPLY FAN MOTOR/2 1 KW EXTRACT FAN MOTOR	3850x1500x1750	837.3	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: AUTOMATED PALET DAMPER/FAN FILTER BAG RETURN: ELECTROMOTORISED SUPPLY FAN/HEAT RECOVERY COIL COOLING EXHAUST: EXTRACT FAN/HEAT RECOVERY COIL	3ph - 415V - 50Hz

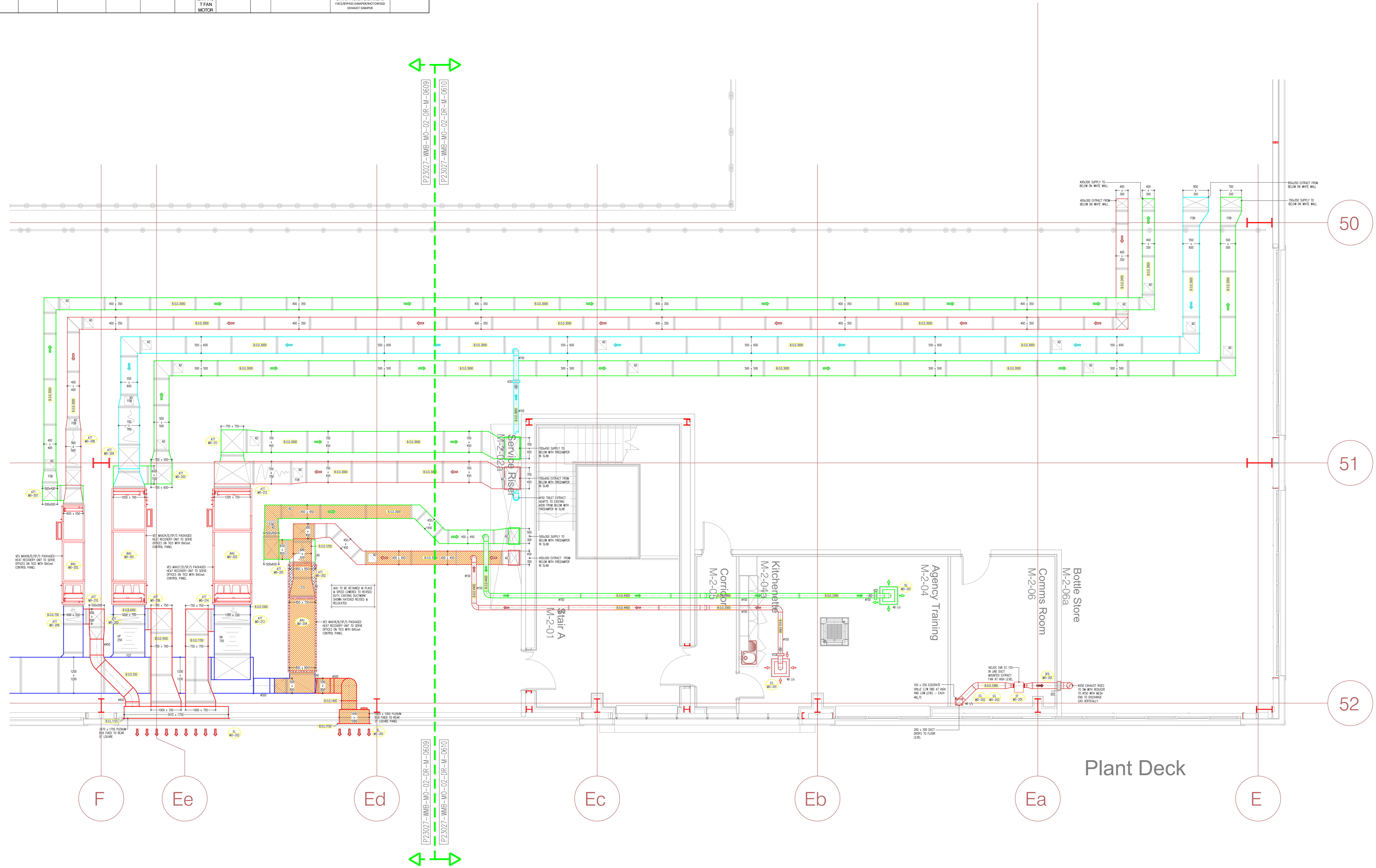
AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/PS)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-202	CANTEEN	YES ANDOVER	HEAT RECOVERY	MAX271D/SP/S	1.834 @ 300 Pa	1.810 @ 300 Pa	1.95	3.5 KW SUPPLY FAN MOTOR/3 0 KW EXTRACT FAN MOTOR	3850x1300x1800	942	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: AUTOMATED PALET DAMPER/FAN FILTER BAG RETURN: ELECTROMOTORISED SUPPLY FAN/HEAT RECOVERY COIL COOLING EXHAUST: EXTRACT FAN/HEAT RECOVERY COIL	3ph - 415V - 50Hz

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/PS)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-203	GYM	YES ANDOVER	HEAT RECOVERY	MAX93B/SP/S	0.880 @ 275 Pa	0.650 @ 275 Pa	1.82	3.0 KW SUPPLY FAN MOTOR/3 0 KW EXTRACT FAN MOTOR	3300x1500x1300	542	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: AUTOMATED PALET DAMPER/FAN FILTER BAG RETURN: ELECTROMOTORISED SUPPLY FAN/HEAT RECOVERY COIL COOLING EXHAUST: EXTRACT FAN/HEAT RECOVERY COIL	3ph - 415V - 50Hz

AIR HANDLING UNIT SCHEDULE													
REF NO.	SERVING	MAKE	TYPE	MODEL	DESIGN DUTY (S) (m³/s)	DESIGN DUTY (E) (m³/s)	SFP (W/PS)	POWER (KW)	OVERALL SIZE (mm) (LxWxH)	WEIGHT (kg)	CONTROL	COMPONENTS	ELEC. SUPPLY
AHJ-MO-204	OFFICES	YES ANDOVER	HEAT RECOVERY	MAX181B/SP/S	0.780 @ 300 Pa	0.730 @ 300 Pa	1.75	2.8 KW SUPPLY FAN MOTOR/2 5 KW EXTRACT FAN MOTOR	3600x950x1900	698	INTEGRAL PACKAGED CONTROL SYSTEM AND PANEL WITH BLOW-LINK TO BASE	SUPPLY SIDE: AUTOMATED PALET DAMPER/FAN FILTER BAG RETURN: ELECTROMOTORISED SUPPLY FAN/HEAT RECOVERY COIL COOLING EXHAUST: EXTRACT FAN/HEAT RECOVERY COIL	3ph - 415V - 50Hz

DISTRIBUTION OFFICE 2 ATTENUATOR SCHEDULE										
REF NO.	MAKE	TYPE	MODEL	SERVING	DESIGN FLOW (L/S)	LOSS (Pa)	TARGET NR	LENGTH (mm)	CONN. SIZE (mm/INCH)	WEIGHT (kg)
ATT-MO-201	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-204 SUPPLY	0.78	30	38	1200	500x650	58
ATT-MO-202	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-204 EXTRACT	0.73	30	38	1200	500x650	58
ATT-MO-203	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-201 SUPPLY	1.354	30	38	1200	700x900	89
ATT-MO-204	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-201 EXTRACT	1.62	30	38	1200	700x900	78
ATT-MO-205	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-201 FRESH AIR	1.354	30	38	600	1000x700	54
ATT-MO-206	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-201 EXHAUST	1.62	30	38	600	700x750	41
ATT-MO-207	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-202 SUPPLY	1.834	30	38	1200	750x750	85
ATT-MO-208	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-202 EXTRACT	1.81	30	38	1200	750x750	84
ATT-MO-209	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-202 FRESH AIR	1.834	30	38	600	1200x750	42
ATT-MO-210	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-202 EXHAUST	1.81	30	38	600	750x750	34
ATT-MO-211	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-203 SUPPLY	0.65	30	38	1200	500x650	42
ATT-MO-212	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-203 EXTRACT	0.65	30	38	1200	500x650	42
ATT-MO-213	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-203 FRESH AIR	0.65	30	38	600	650x650	29
ATT-MO-214	ALLAVAY	RECTANGULAR	SLG	AHJ-MO-203 EXHAUST	0.65	30	38	600	500x650	24

EXTRACT FAN SCHEDULE										
REF NO.	MAKE	TYPE	MODEL	DESIGN DUTY (W/PS)	CONTROL	FLC (A)	POWER (W)	ELEC. SUPPLY		
EF-MO-201	HELIOS	CENTRIFUGAL FAN	SVR EC 125	0.300 @ 1.25 ps	0.5		0.9	0.12	230V 1ph 50Hz	



- NOTES**
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 - ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 - FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 - ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILING.
 - ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH.

LEGEND	
	CEILING MOUNTED FOUR WAY LOUVRE (FRESH RETURN AIR GRILLE/SUPPLY DIFFUSER)
	CROSSED CIRCULAR DIFFUSER
	CEILING MOUNTED TOILET EXTRACT AIR GRILLE
	FLEXIBLE DUCTWORK
	VOLUME CONTROL DAMPER (MANUAL)
	SINGLE BLADE DAMPER (MANUAL)
	ATTENUATOR
	FIRE DAMPER C/A ACCESS DOOR
	WIDE 5 SMOKE/FIRE DAMPER LINKED TO FIRE ALARM M/A M/A C/A ACCESS DOOR
	EXTERNAL LOUVRE
	RETAINED EXISTING SERVICES (SHOWN HATCHED)

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Leicester
 LE11 3BB
 Tel: (0116) 311 2477
 Fax: (0116) 300 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

REVA

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

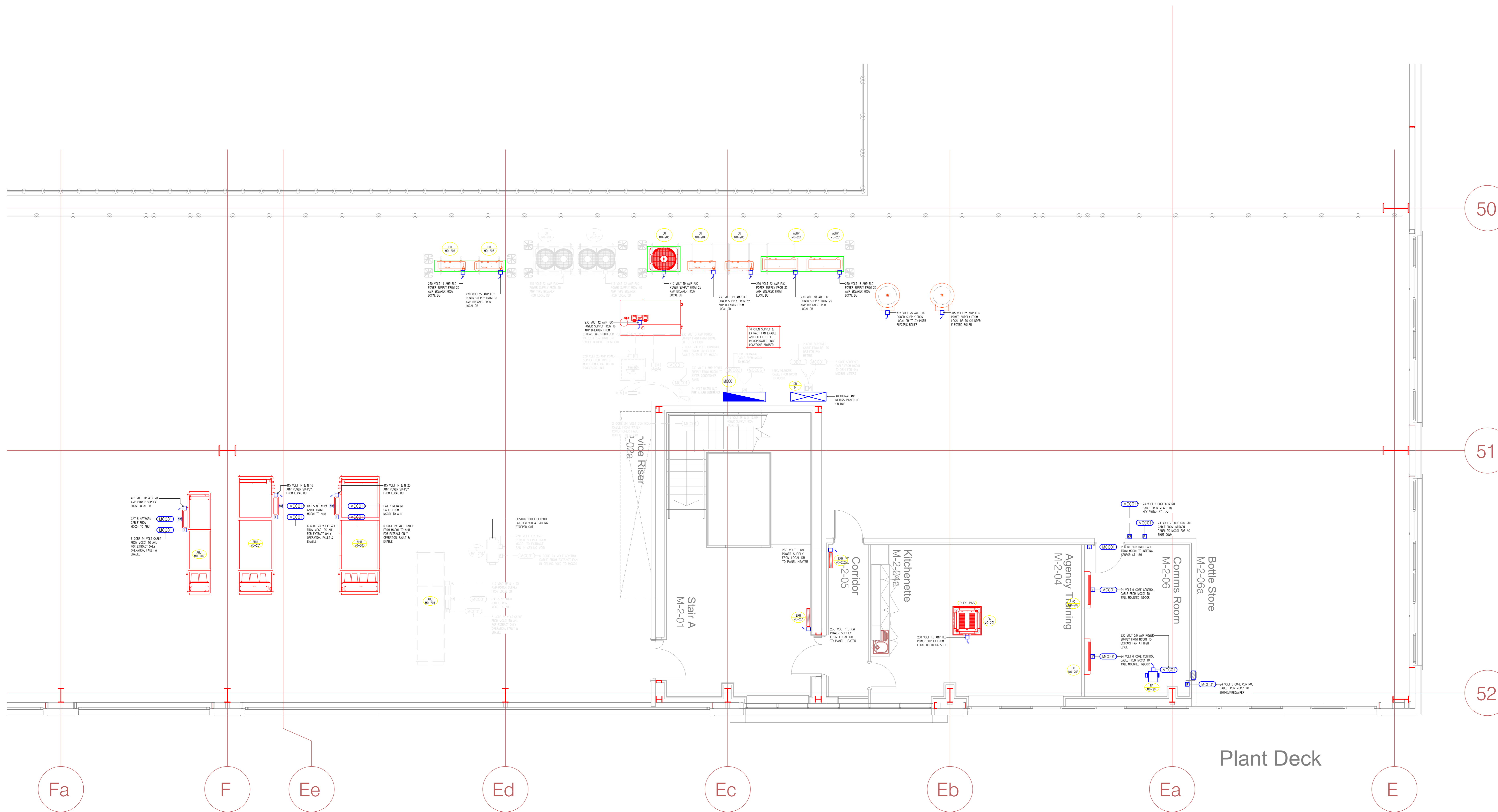
Client: **winvic**

Title: **Main Office Second Floor Plant Deck Ventilation Services Layout Sht 2 of 2**

Scale of A5: Date: 11/02/24
 Designed: L.S.
 Drawn: L.S.
 Design Check: J.M.
 Drawing No: P23027-WMB-MO-02-DR-M-0610
 Rev: -

AS FITTED

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS.
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS.



Plant Deck

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurston
 Leicester
 LE18 3BS
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

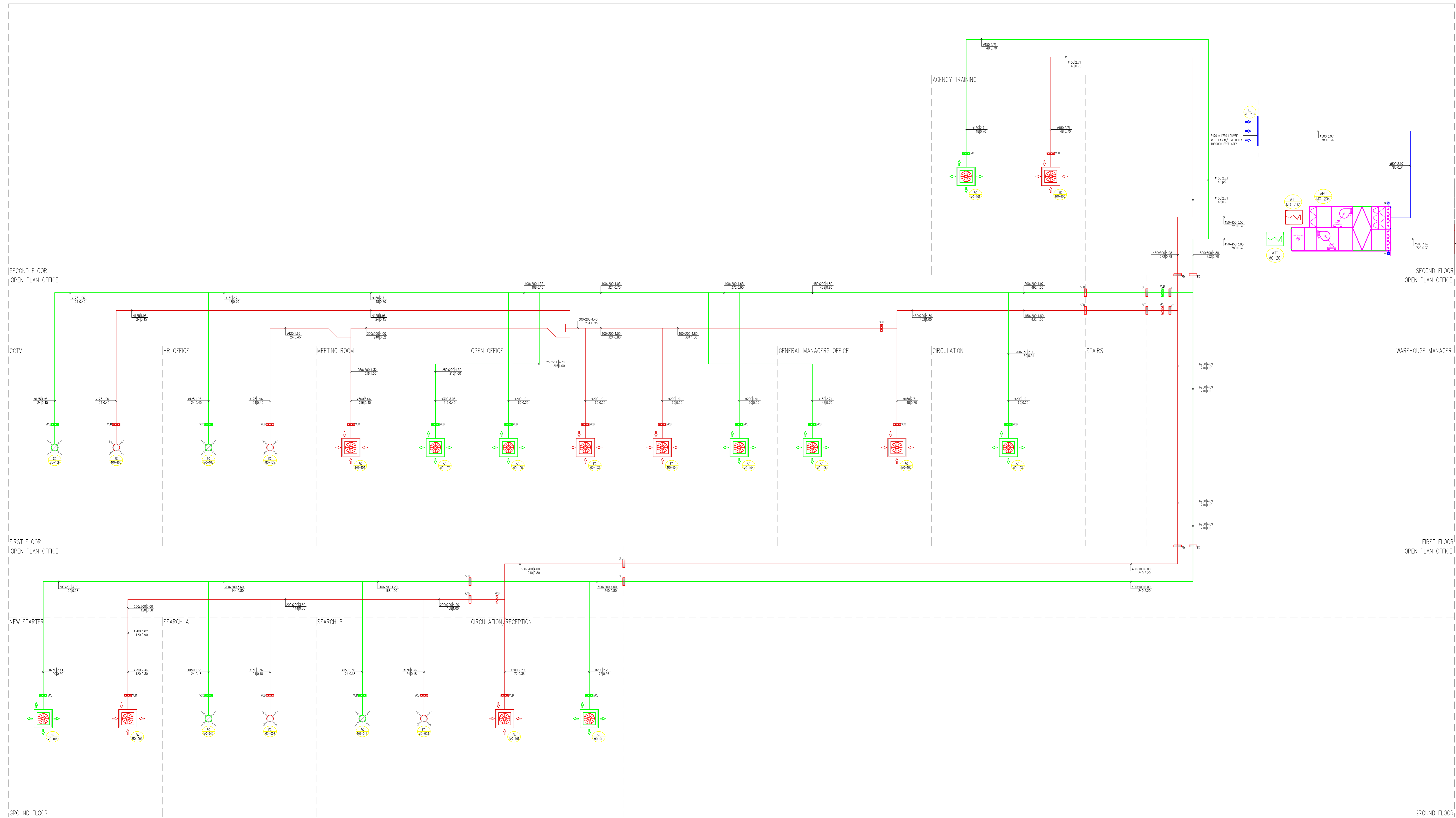
winvic

Title:
**Main Office Second Floor
 Plant Deck Mechanical
 Power & Controls Wiring**

Scale of A3	Date	Designed	Drawn	Design Check
1:50	18.09.24	L.S.	L.S.	J.M.
Drawing No:		Rev:		
P23027-WMB-MO-02-DR-M-0910		-		

AS FITTED

- NOTES**
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 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
 6. ALL SUPPLY, RETURN AIR & FRESH AIR DUCTWORK IN CEILING VOID & ROOF IS THERMALLY INSULATED WITH 25MM THICK MINERAL WOOL INSULATION.
 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILING.
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH.



MAIN OFFICE - OFFICE SYSTEM

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE14 4BB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES **REACT**

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

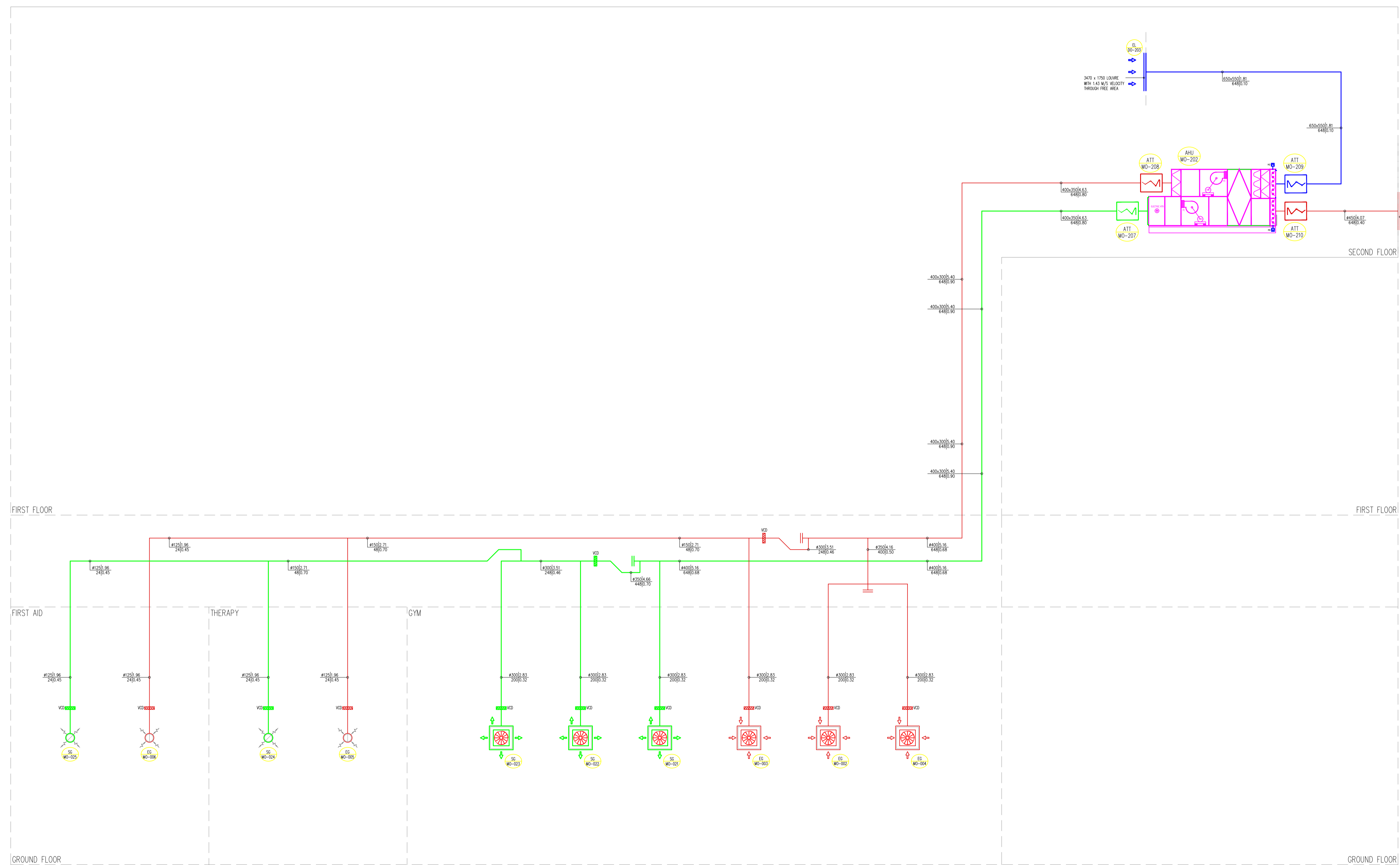
Client: **winvic**

Title: **Main Office System
 Primary Ventilation
 Schematic**

Scale of A3	Date	Designed	Drawn	Design Check
m.e.s	08.24.24	L.S	L.S	J.M
Drawing No:	P23027-WMB-MO-ZZ-DR-M-0104		Rev:	-

AS FITTED

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
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 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



MAIN OFFICE - GYM SYSTEM

REV	DATE	DESCRIPTION	BY
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WM BUILDING SERVICES

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurleston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Approved Installer: **REACT**

Project: **The RANGE**
 Home, Leisure & Garden

PLOT 4000 STOWMARKET

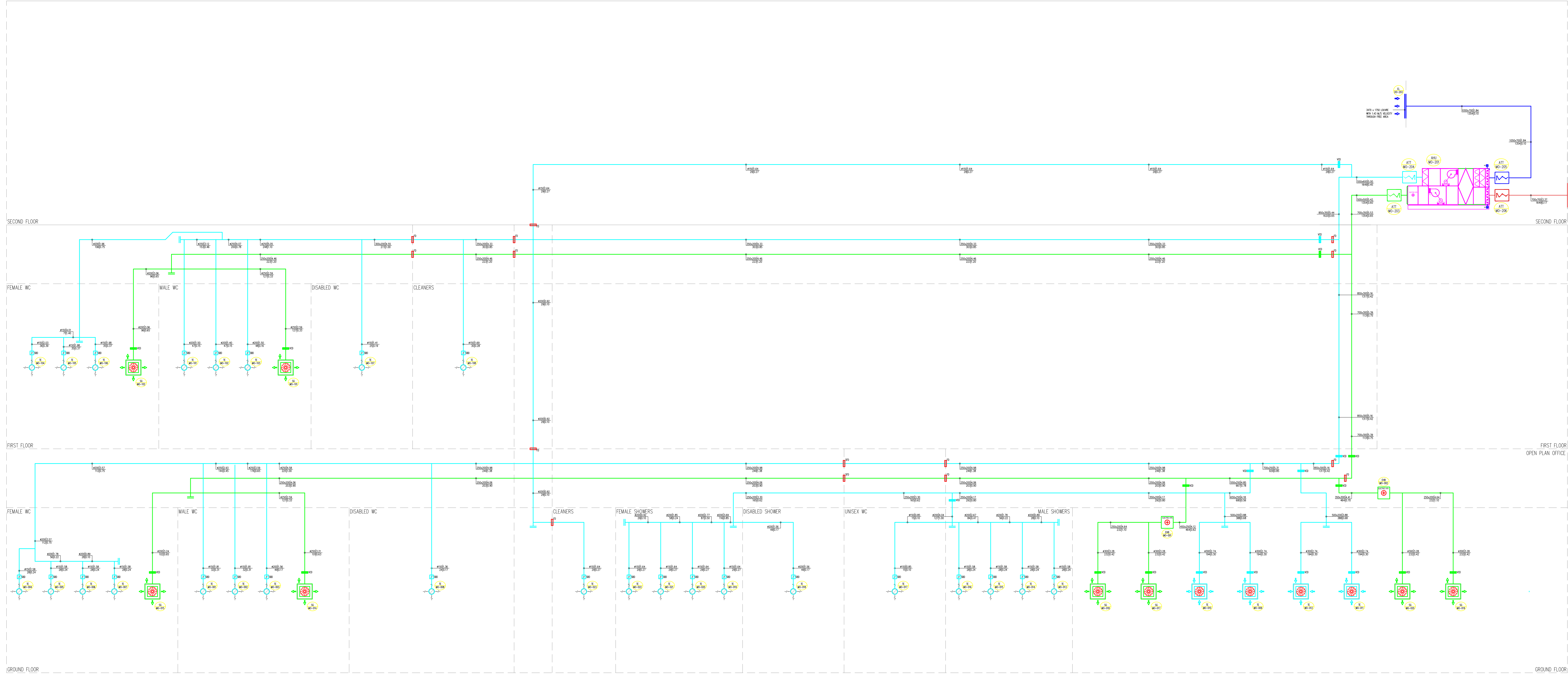
Client: **winvic**

Title: **Main Office Gym Primary Ventilation Schematic**

Scale at A1: n.t.s	Date: 08.24.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-MO-ZZ-DR-M-0105				Rev: -

AS FITTED

- NOTES**
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 3. THIS DRAWING IS NOT TO BE SCALED.
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 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
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 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 25MM TO ALLOW INSULATION TO PASS THROUGH



MAIN OFFICE - TOILET/LOCKER ROOM SYSTEM

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurnston
 Leicester
 LE14 4ES
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES **REACT**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

Title:
Main Office Toilet & Locker Room Ventilation Schematic

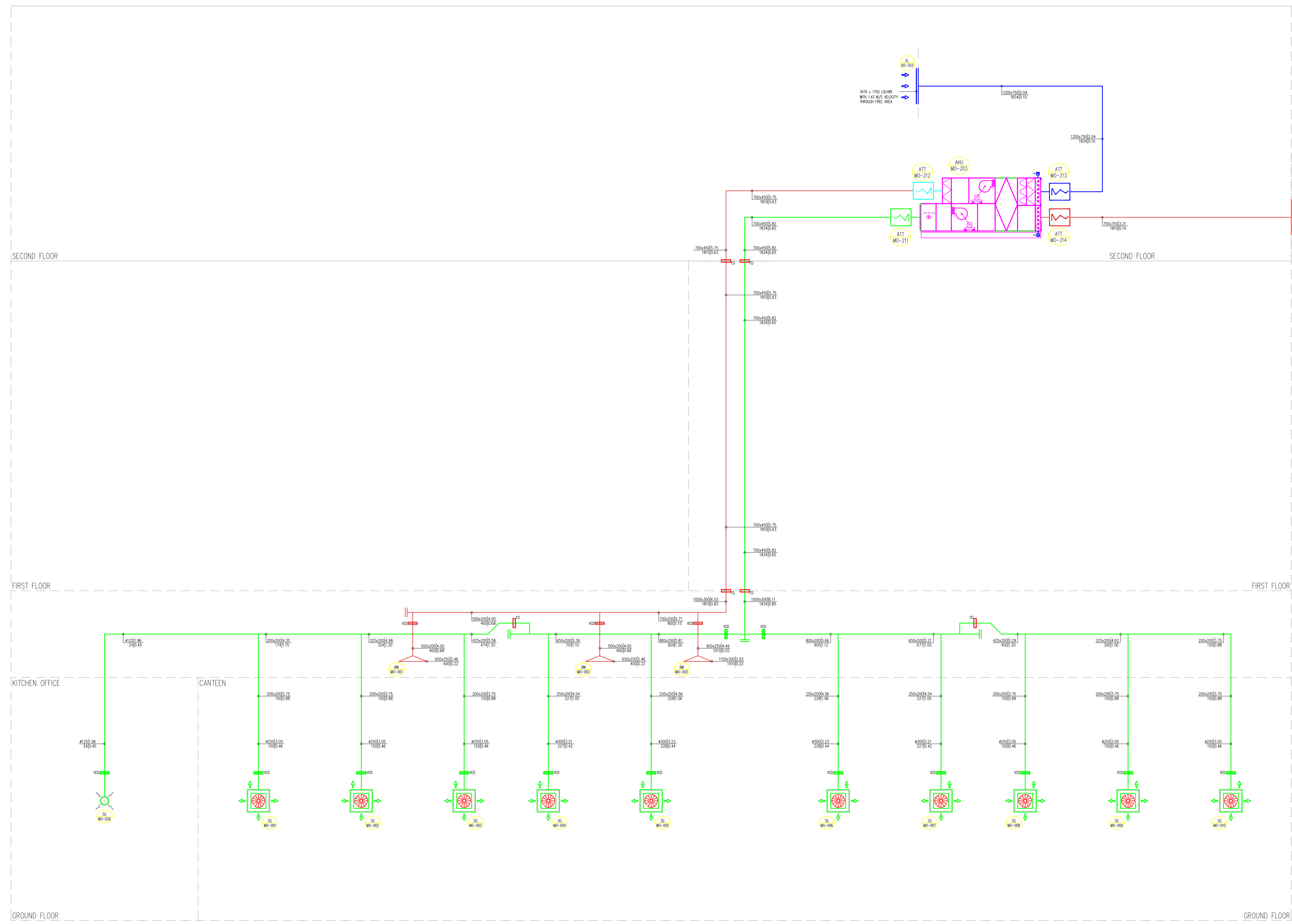
Scale of A0	Date	Designed	Drawn	Design Check
M.E.S	08.24.24	L.S	L.S	J.M

Drawing No:
P23027-WMB-MO-ZZ-DR-M-0106

Rev:
 -

AS FITTED

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BUILDING SERVICES DRAWINGS & THE RELEVANT SECTIONS OF THE SPECIFICATIONS & SCHEDULES.
 3. THIS DRAWING IS NOT TO BE SCALED.
 4. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 5. DUCTWORK INSTALLATION IN ACCORDANCE WITH DW/144.
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 7. FIRE DAMPERS AND ACCESS PANELS INSTALLED TO ALL FIRE COMPARTMENTS WALLS & BARRIERS AS PER THE FIRE STRATEGY DRAWING.
 8. ALL GRILLES FINISHED IN A RAL 9010 WHITE TO CEILINGS
 9. ALL SUPPLY & RETURN AIR DUCTWORK THROUGH WALLS HAVE HOLES OVERSIZED BY 35MM TO ALLOW INSULATION TO PASS THROUGH



MAIN OFFICE - OFFICE SYSTEM

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurnston
 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

BES **SAFE** **REACT**

Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

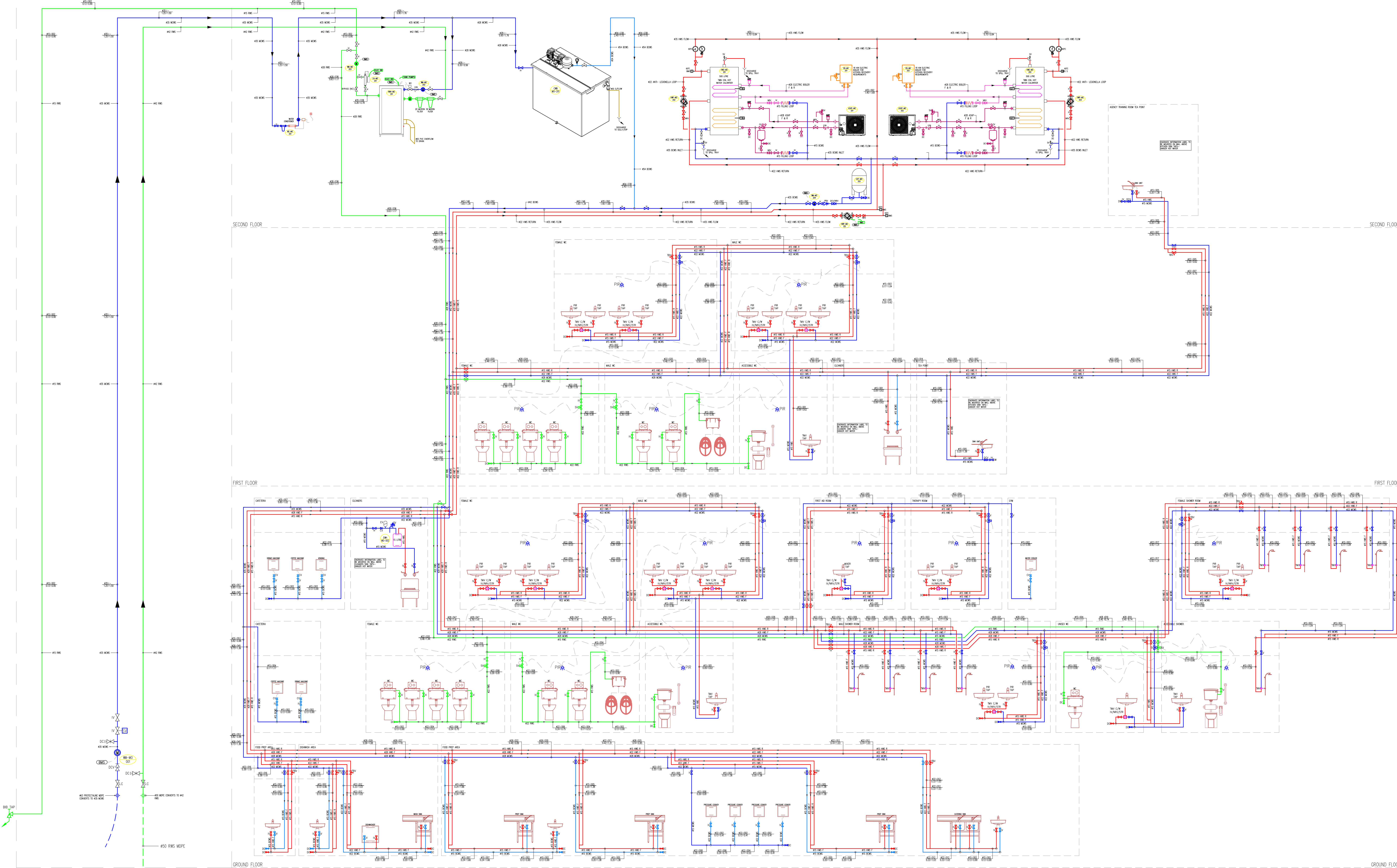
Title:
**Main Office Canteen
 Ventilation Schematic**

Scale at A1: n.t.s	Date: 08.24.24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-MO-ZZ-DR-M-0107	Rev: -			

AS FITTED

WAREHOUSE

SECOND FLOOR PLANT DECK



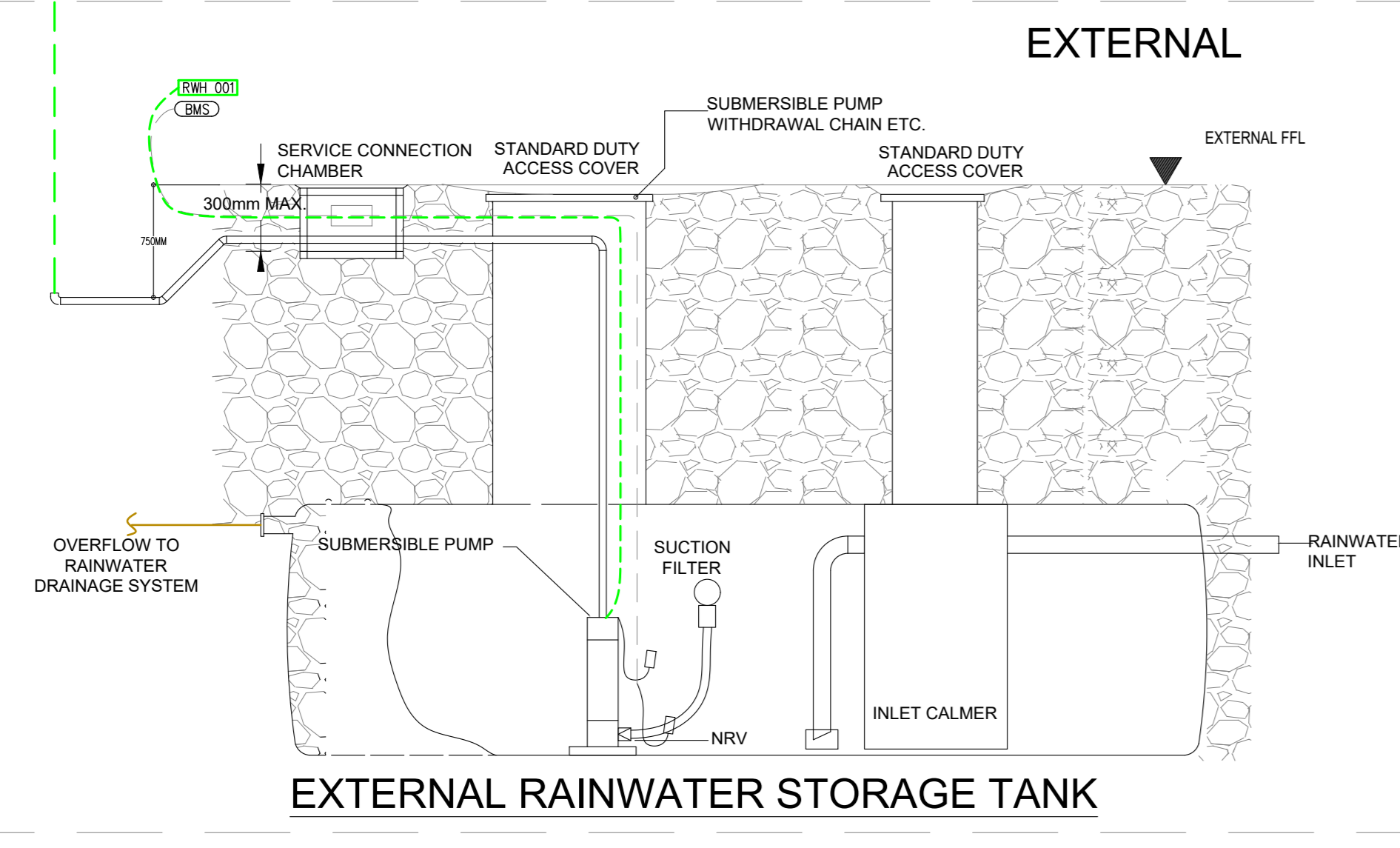
- NOTES**
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 - THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL LOW POINTS FITTED WITH LOCKSHIELD DRAINCOCKS.
 - ALL HIGH POINTS FITTED WITH AUTOMATIC AIR VENTS.
 - ALL DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN COPPER TUBE WITH PRESS FITTINGS.
 - ALL EXPOSED DOMESTIC WATER SERVICE PIPEWORK INSTALLED IN CHROME PLATED TUBE WITH PRESS FITTINGS.
 - ALL HOT & COLD WATER PIPEWORK IN CORRIDORS & RISERS INSULATED WITH MINERAL WOOL SECTION & IDENTIFIED AS SPECIFICATION.
 - ALL OUTLETS FITTED WITH INDIVIDUAL CHROME PLATED SERVICE VALVES.
 - ALL MCWS & FWS PIPEWORK FITTED WITH INSULATED CLIPS WITH HWS PIPEWORK FITTED WITH RUBBER LINED CLIPS.
 - HOLES THROUGH PARTITIONS/WALLS OVERSIZED BY 25MM ALL ROUND TO ALLOW INSULATION TO BE CONTINUOUS.
 - PIPEWORK IN WALLS PROVIDED WITH PULLED BENDS & INSULATED WITH ARMAFLEX INSULATION PROTRUDING FROM WALLS.

SIZING KEY

DIA	LU
L/S	VEL

LEGEND

- HWS HOT WATER SERVICE
- MCWS MAINS COLD WATER SERVICE
- BCWS BOOSTED COLD WATER SERVICE
- IV ISOLATING VALVE
- SV WRAS APPROVED SOLENOID VALVE
- DRV DOUBLE REGULATING VALVE
- DCV DOUBLE CHECK VALVE
- TRV THERMAL BALANCING VALVE
- BV BLENDING VALVE
- WHS WATER HEATER SAFETY VALVE
- WHE WATER HEATER EXP VESSEL
- DOV DRAIN OFF VALVE
- SCV SINGLE CHECK VALVE
- PRV PRESSURE REDUCING VALVE
- WM WATER METER LINKED TO BMS
- PRD PIR DETECTOR



REV	DATE	DESCRIPTION	BY
-----	------	-------------	----



WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8BS
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 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com



Project:
The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client:
winvic

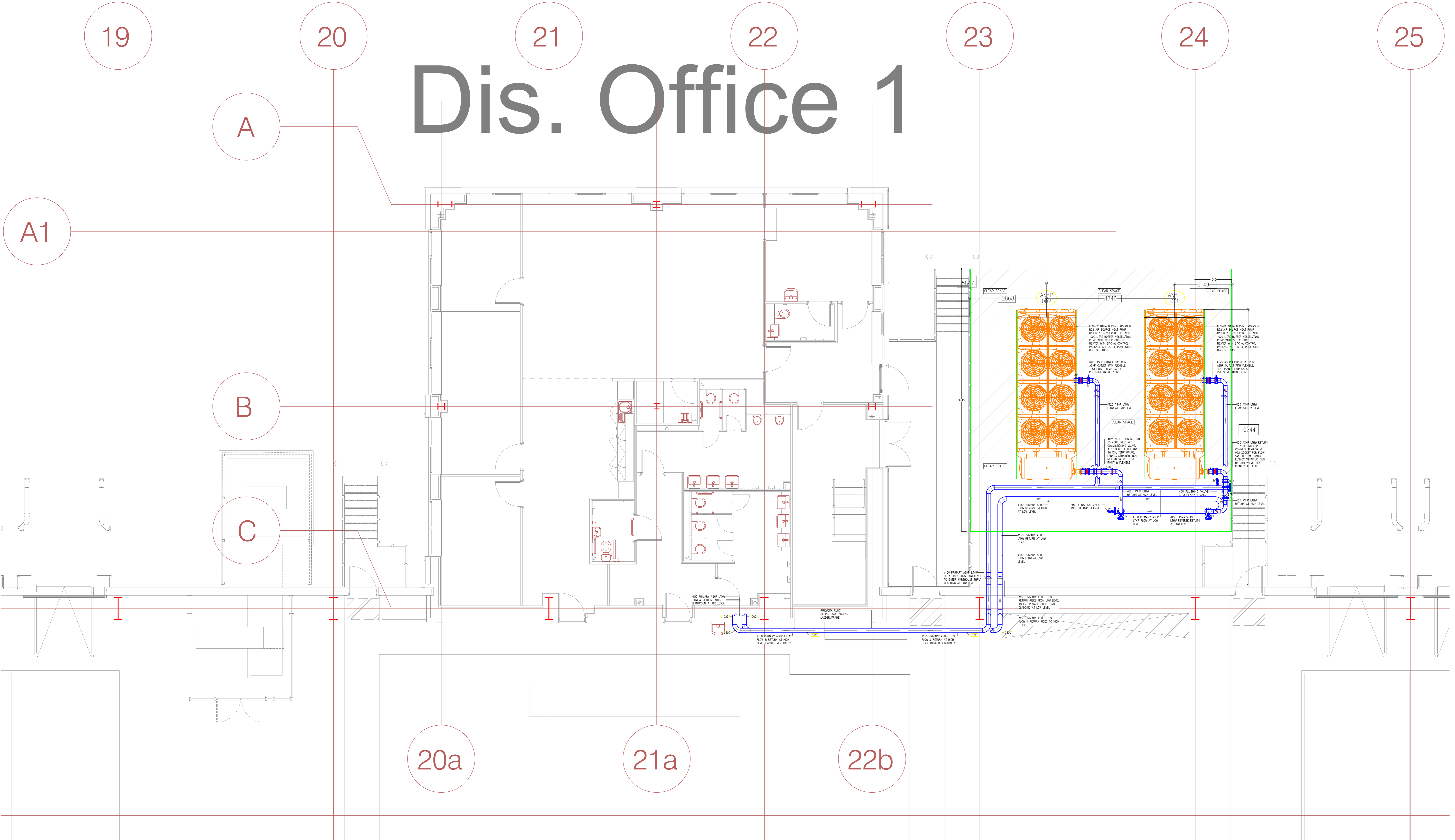
Title:
Main Office Domestic Water Services Schematic

Scale of AS	Date: 15-04-24	Designed: L.S	Drawn: L.S	Design Check: J.M
Drawing No: P23027-WMB-MO-ZZ-DR-M-0110				Rev: -

AS FITTED

REF	LOCATION	MAKE	MODEL	REFRIGERANT TYPE	HTO DUTY (kW)	NETT HTG DUTY (kW)	FLOW TEMP (°C)	RETURN TEMP (°C)	AIR SOURCE HEAT PUMP			INTEGRATED SAFETY VALVE	WEIGHT (kg)	OUTDOOR/INDOOR	POWER REQUIREMENTS	RUNNING CURRENT (Amps)	ACCESSORIES	
									HEATING FLOW RATE (kW)	INTEGRATED SAFETY VALVE	INTEGRATED SAFETY VALVE							
ASHP-001	EXTERNAL TO DISTRIBUTION OFFICE	LENNOX	HC0400P20	R32	320.00	214.00	45	40	16.47	Yes	Yes	Yes	5240(42250W) (4241.5kg)	3501	Cascade	3Ph-415V-50Hz	448	LOW NOISE HIGH ACOUSTIC COMPRESSOR HOUSING/PERMANENT LEAK DETECTION/RELEASING MODELS/100 LITRE BUFFER VESSEL, 22 KW BACK UP ELECTRIC HEATING/RELEASING MODELS/COMBINATION TO HIGH ENERGY INTERVAL MOUNTS
ASHP-002	EXTERNAL TO DISTRIBUTION OFFICE	LENNOX	HC0400P20	R32	320.00	214.00	45	40	16.47	Yes	Yes	Yes	5240(42250W) (4241.5kg)	3501	Cascade	3Ph-415V-50Hz	448	LOW NOISE HIGH ACOUSTIC COMPRESSOR HOUSING/PERMANENT LEAK DETECTION/RELEASING MODELS/100 LITRE BUFFER VESSEL, 22 KW BACK UP ELECTRIC HEATING/RELEASING MODELS/COMBINATION TO HIGH ENERGY INTERVAL MOUNTS

Dis. Office 1



- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & STRUCTURAL DRAWINGS.
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 - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 - ALL PIPEWORK SLEEVED & FIRESTOPPED WHERE PENETRATING FIRE COMPARTMENTS
 - ALL LTHW HEATING PIPEWORK MILD STEEL WITH THREADED MALEABLE/WELDED STEEL FITTINGS.
 - ALL PIPEWORK INSULATED WITH PHENOLIC SECTION, FOL FACED WITH ID
 - AUTOMATIC AIR VENTS FITTED AT ALL HIGH POINTS, DRAIN COCKS FITTED AT ALL LOW POINTS.
 - ALL PIPEWORK FITTED WITH INSULATED CLIPS & BLOCK TO PROVIDE VAPOUR SEAL
 - REFER TO SCHEMATIC DRAWING FOR VALVE ARRANGEMENT

- LEGEND**
- PIPEWORK IN CEILING VOID
 - PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - F & R FLOW AND RETURN
 - ISOLATING VALVE
 - LSV LOCKSHIELD ISOLATING VALVE
 - CV COMMISSIONING VALVE
 - DRV DOUBLE REGULATING VALVE
 - NRV NON RETURN VALVE
 - DCV DOUBLE CHECK VALVE
 - STRAINER
 - THREE PORT CONTROL VALVE
 - TWO PORT CONTROL VALVE
 - BINDER TEST POINT
 - AUTO AIR VENT
 - FLEXIBLE CONNECTION
 - SAFETY VALVE
 - PRESSURE SENSOR
 - FLOW SWITCH
 - BMS SENSOR
 - DIFFERENTIAL PRESSURE SWITCH
 - PRESSURE GAUGE
 - TEMPERATURE GAUGE
 - WATER METER

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
 Thurmaston
 Leicester
 LE4 8BS
 Tel: (0116) 311 2477
 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

RECS **REA**

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office 1
 Warehouse & External
 ASHP Services Layout**

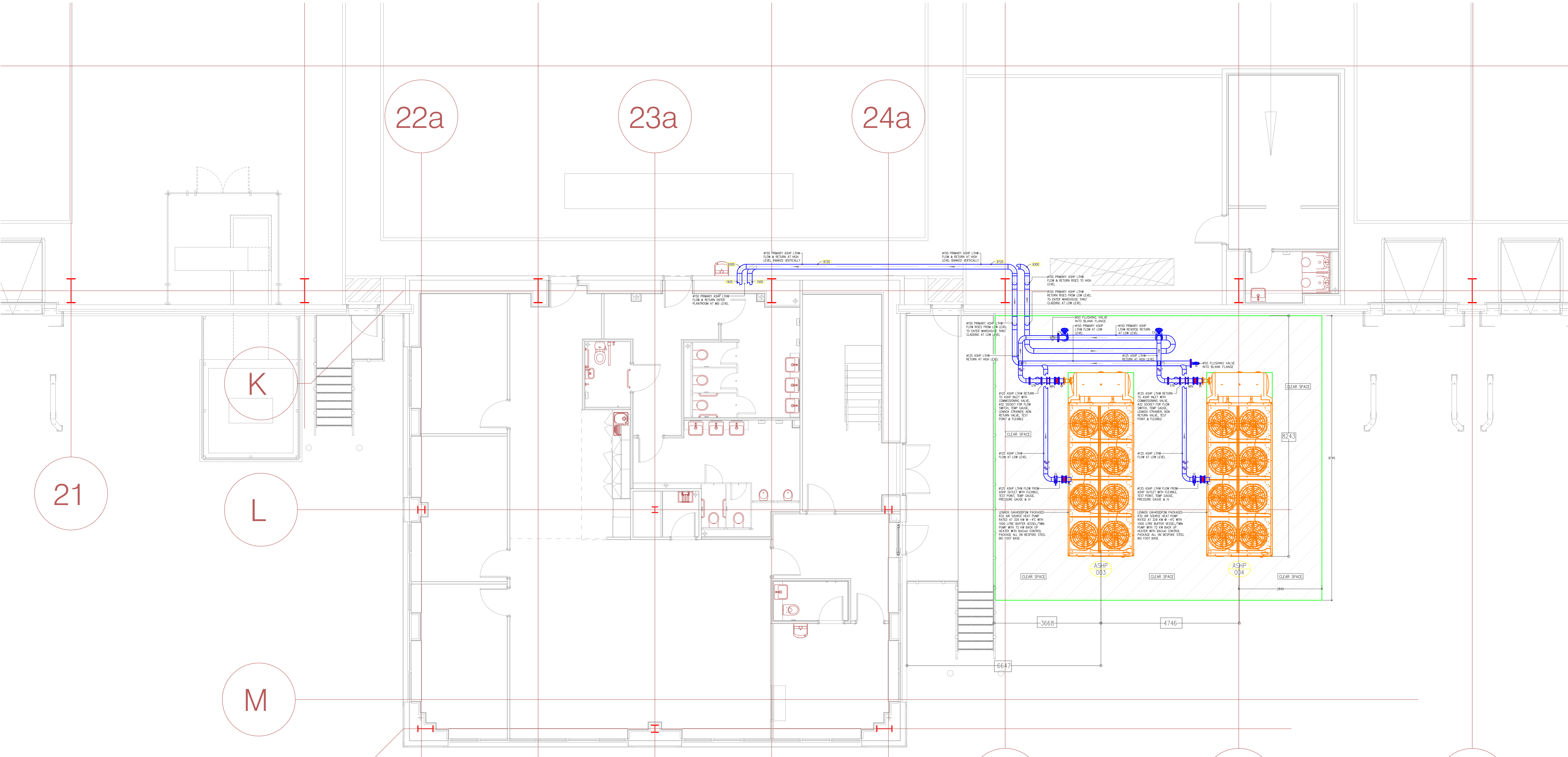
Scale of A5	Date	Designed	Drawn	Design Check
1:50	10.03.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-WH-00-DR-M-1000**

Rev: **-**

AS FITTED

REF	LOCATION	MAKE	MODEL	REFRIGERANT TYPE	HTO DUTY (kW)	NETT HTG DUTY (kW)	FLOW TEMP (°C)	RETURN TEMP (°C)	AIR SOURCE HEAT PUMP				WEIGHT (kg)	DUTY/SHR/ CASCADE	POWER REQUIREMENTS	RUNNING CURRENT (amps)	ACCESSORIES		
									NOISE (dB(A))	HYDRAULIC SAFETY VALVE	HYDRAULIC EXP. VESSEL	HYDRAULIC SAFETY VALVE							
ASHP-003	EXTERNAL TO DISTRIBUTION OFFICE 2	LENNOX	4COMFORT GVAH50F2M	R32	320.00	274.00	45	40	16.47	Yes	Yes	Yes	Yes	5240(2250W) 4240(1.5N)	5501	Cascade	3Ph - 415V - 50Hz	448	LOW NOISE MID-Acoustic COMPOSITE HOUSING/RESISTANT LEAK DETECTION/RELEASABLE ROSS/5000 LITRE BUFFER VESSEL, 72 KW BACK UP ELECTRIC HEATER/EMERGENCY CONNECTION TO EMERGENCY INTERGRAL MOUNTS
ASHP-004	EXTERNAL TO DISTRIBUTION OFFICE 2	LENNOX	4COMFORT GVAH50F2M	R32	320.00	274.00	45	40	16.47	Yes	Yes	Yes	Yes	5240(2250W) 4240(1.5N)	5501	Cascade	3Ph - 415V - 50Hz	448	LOW NOISE MID-Acoustic COMPOSITE HOUSING/RESISTANT LEAK DETECTION/RELEASABLE ROSS/5000 LITRE BUFFER VESSEL, 72 KW BACK UP ELECTRIC HEATER/EMERGENCY CONNECTION TO EMERGENCY INTERGRAL MOUNTS



Dis. Office 2

- NOTES**
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 - ALL PIPEWORK SLEEVED & FIRESTOPPED WHERE PENETRATING FIRE COMPARTMENTS
 - ALL LTHW HEATING PIPEWORK MILD STEEL WITH THREADED MALEABLE/WELDED STEEL FITTINGS.
 - ALL PIPEWORK INSULATED WITH PHENOLIC SECTION, FOL FACED WITH ID
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 - ALL PIPEWORK FITTED WITH INSULATED CLIPS & BLOCK TO PROVIDE VAPOUR SEAL
 - REFER TO SCHEMATIC DRAWING FOR VALVE ARRANGEMENT

- LEGEND**
- PIPEWORK IN CEILING VOID
 - PIPEWORK AT HIGH LEVEL
 - PIPEWORK AT LOW LEVEL
 - F & R FLOW AND RETURN
 - ISOLATING VALVE
 - LSV LOCKSHIELD ISOLATING VALVE
 - COMMISSIONING VALVE
 - DOUBLE REGULATING VALVE
 - NON RETURN VALVE
 - DOUBLE CHECK VALVE
 - STRAINER
 - THREE PORT CONTROL VALVE
 - TWO PORT CONTROL VALVE
 - BINDER TEST POINT
 - AUTO AIR VENT
 - FLEXIBLE CONNECTION
 - SAFETY VALVE
 - PRESSURE SENSOR
 - FLOW SWITCH
 - BMS SENSOR
 - DIFFERENTIAL PRESSURE SWITCH
 - PRESSURE GAUGE
 - TEMPERATURE GAUGE
 - WATER METER

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
 657 Melton Road
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 LE4 8BB
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 Fax: (0116) 260 9537
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

REACT

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office 2
 Warehouse & External
 ASHP Services Layout**

Scale of AS	Date:	Designed:	Drawn:	Design Check:
1:50	10.03.24	L.S	L.S	J.M

Drawing No: **P23027-WMB-WH-00-DR-M-1002**

Rev: **-**

AS FITTED

PUMP SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	LOCATION	CONNECTION SIZE	LINE SIZE (mm)	DUTY (L/s)	HEAD (kpa)	FLOW TEMP (Deg C)	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HP-201	GRUNDFOS	TWIN HEAD ELECTRONIC CIRCULATOR	TPED125-230/4 A-F-A-BQ3E-OW3	DISTRIBUTION OFFICE 1 SECONDARY LTHW	1250	1500	33.200	225	45	30.0	768	415V 3Ph 50Hz

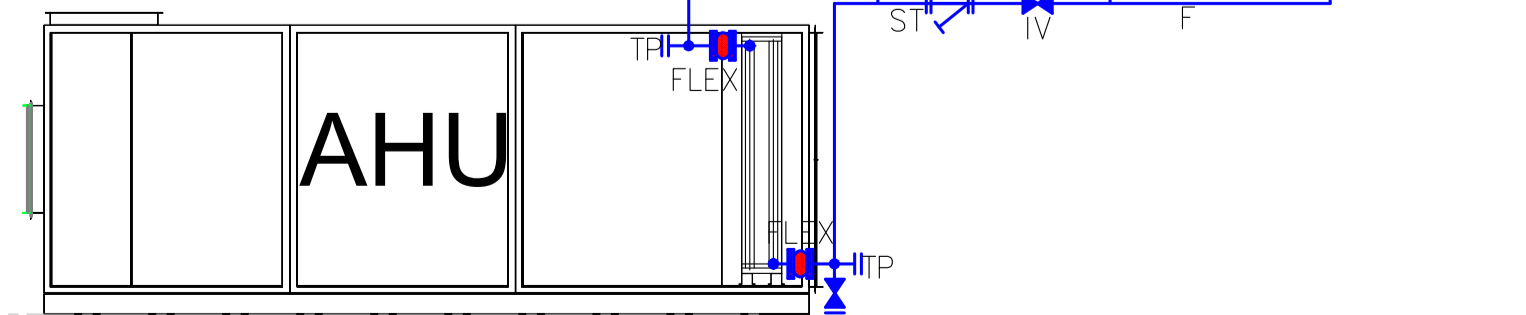
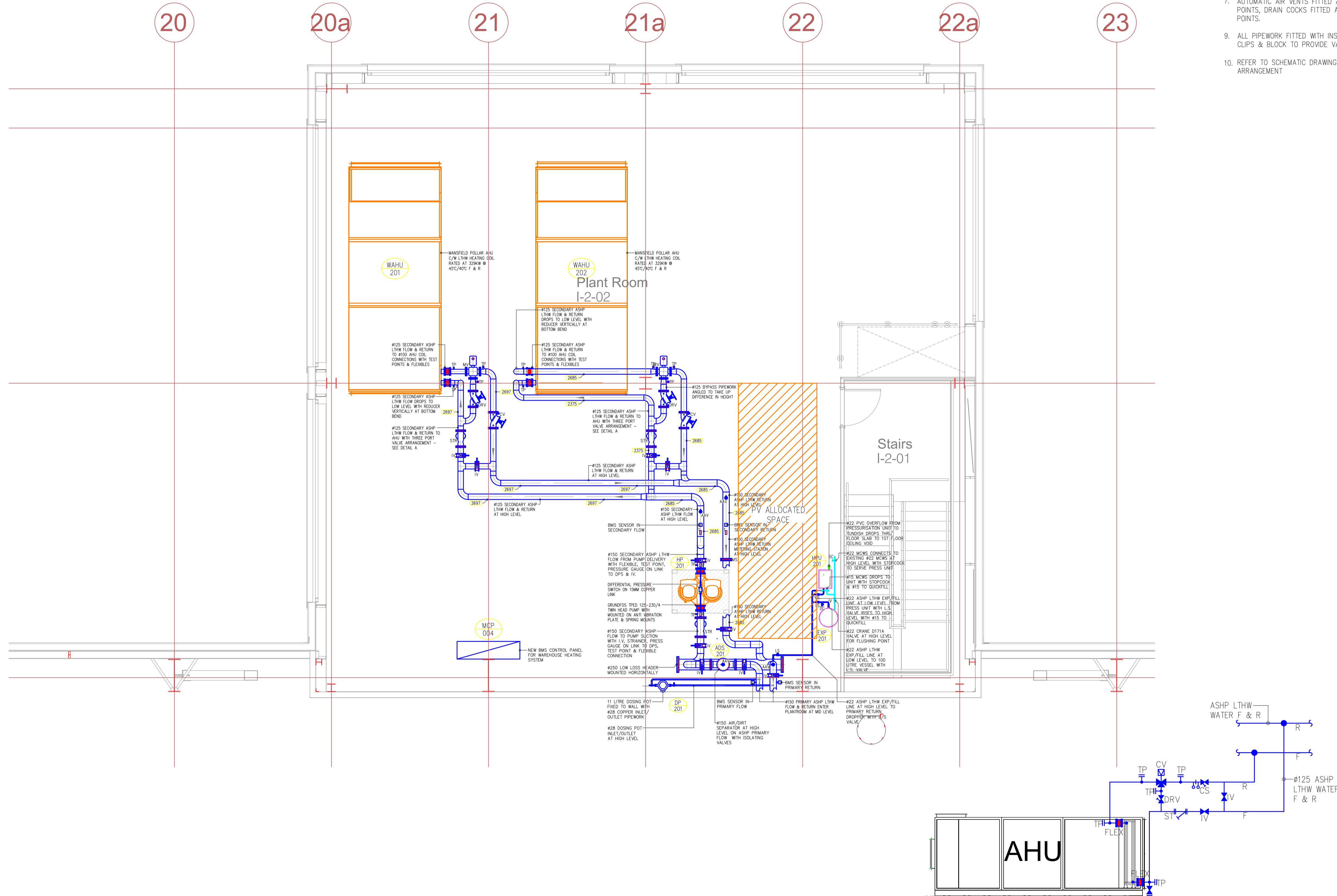
AIR & DIRT SEPARATOR SCHEDULE										
REF NO.	MAKE	MODEL	LOCATION	TYPE	FLOW RATE (L/S)	PRESSURE DROP (kPa)	PIPE LINE SIZE	DIMENSION Ø x H mm	WEIGHT (kg)	
ADS-201	FABRICATED PRODUCTS	CVAD-150	DISTRIBUTION OFFICE 1	FLANGED MICROBUBBLE	33.2	5.00	150mm	325 x 1020	42	

PRESSURISATION UNIT SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION	WORKING PRESSURE (Bar)	CONN SIZE (mm)	OVERALL SIZE (mm)	FULL LOAD CURRENT (Amps)	ELEC. SUPPLY
HPU-201	GRUNDFOS	FLOOR MOUNTED	PHTA-F125	DISTRIBUTION OFFICE 1	0.5 - 2.5 BAR	15	832(h)x470(w)x332(d)	0.48	230V 1ph 50Hz

CHEMICAL DOSING POT SCHEDULE							
REF NO.	MAKE	MODEL	LOCATION	SERVING	CAPACITY (Litres)	OVERALL SIZE (mm)	WEIGHT (kg)
DP-201	FABRICATED PRODUCTS	DP 11	DISTRIBUTION OFFICE 1 PLANTROOM	LTHW	11	865hx320Wx204D	20

EXPANSION VESSEL SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION	CAPACITY (Litres)	OVERALL SIZE (mm)	AIR CHARGE PRESSURE (bar)	WEIGHT (kg)	NOTES
EV-201	GRUNDFOS	FLOOR STANDING VERTICAL	GT-HR-100-PN6	DISTRIBUTION OFFICE 1 LTHW HEATING	100	670x480Ø	1 Bar (Lowest)	20.5	

- NOTES**
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- LEGEND**
- ASHP AIR SOURCE HEAT PUMP
 - LTHW LOW TEMPERATURE HOT WATER
 - HTG HEATING
 - MCWS MAINS COLD WATER
 - THREE PORT CONTROL VALVE
 - DOUBLE REGULATING VALVE
 - FLEXIBLE CONNECTION
 - BUTTERFLY ISOLATING VALVE
 - LEVER BALL ISOLATING VALVE
 - STRAINER
 - SPRING CHECK VALVE
 - COMMISSION VALVE
 - METERING STATION
 - BINDER TEST POINT
 - AUTOMATIC AIR VENT
 - BMS TEMPERATURE SENSOR
 - DOSING POT
 - THERMOMETER
 - PRESSURE GAUGE
 - DRAINCOCK
 - LOCKSHIELD BALL VALVE



Detail A - TYPICAL AHU COIL CONNECTIONS

REV	DATE	DESCRIPTION	BY

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 Leicester
 LE4 8EB
 Tel: (0116) 311 2477
 Fax: (0116) 260 9527
 Email: office@wmbuildingservices.com
 Web: www.wmbuildingservices.com

Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office 1
 Plantroom ASHP Heating
 Services Layout**

Scale at A1: 1:50 | Date: 10.01.24 | Designed: L.S. | Drawn: L.S. | Design Check: J.M.

Drawing No: P23027-WMB-WH-02-DR-M-1001 | Rev: -

AS FITTED

PUMP SCHEDULE												
REF NO.	MAKE	TYPE	MODEL	LOCATION	CONNECTION SIZE	LINE SIZE (mm)	DUTY (L/s)	HEAD (kpa)	FLOW TEMP (Deg C)	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HP-202	GRUNDFOS	TWIN HEAD ELECTRONIC CIRCULATOR	TPED125-230/4 A-F-A-BQOE-OW3	DISTRIBUTION OFFICE 2 SECONDARY LTHW	125Ø	150Ø	33.200	225	45	30.0	768	415V 3Ph 50Hz

AIR & DIRT SEPARATOR SCHEDULE										
REF NO.	MAKE	MODEL	LOCATION	TYPE	FLOW RATE (L/S)	PRESSURE DROP (kPa)	PIPE LINE SIZE	DIMENSION Ø x H mm	WEIGHT (kg)	
ADS-202	FABRICATED PRODUCTS	CVAD-150	DISTRIBUTION OFFICE 2	FLANGED MICROBUBBLE	33.2	5.00	150mm	325 x 1020	42	

PRESSURISATION UNIT SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION	WORKING PRESSURE (Bar)	CONN SIZE (mm)	OVERALL SIZE (mm)	FULL LOAD CURRENT (Amps)	ELEC. SUPPLY
HPU-202	GRUNDFOS	FLOOR MOUNTED	PHTA-F125	DISTRIBUTION OFFICE 2	0.5 - 2.5 BAR	15	832(h)x470(w)x332(d)	0.48	230V 1ph 50Hz

CHEMICAL DOSING POT SCHEDULE							
REF NO.	MAKE	MAX WORKING PRESSURE (Bar)	LOCATION	SERVING	CAPACITY (Litres)	OVERALL SIZE (mm)	WEIGHT (kg)
DP-202	FABRICATED PRODUCTS	DP 11	DISTRIBUTION OFFICE 1 PLANTROOM	LTHW	11	865h x 320W x 204D	20

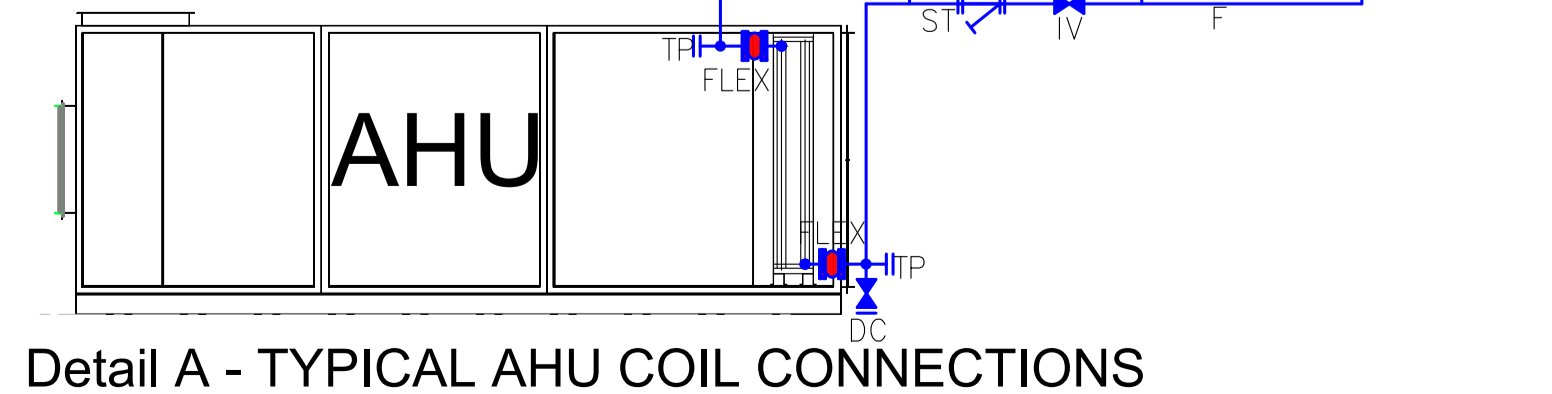
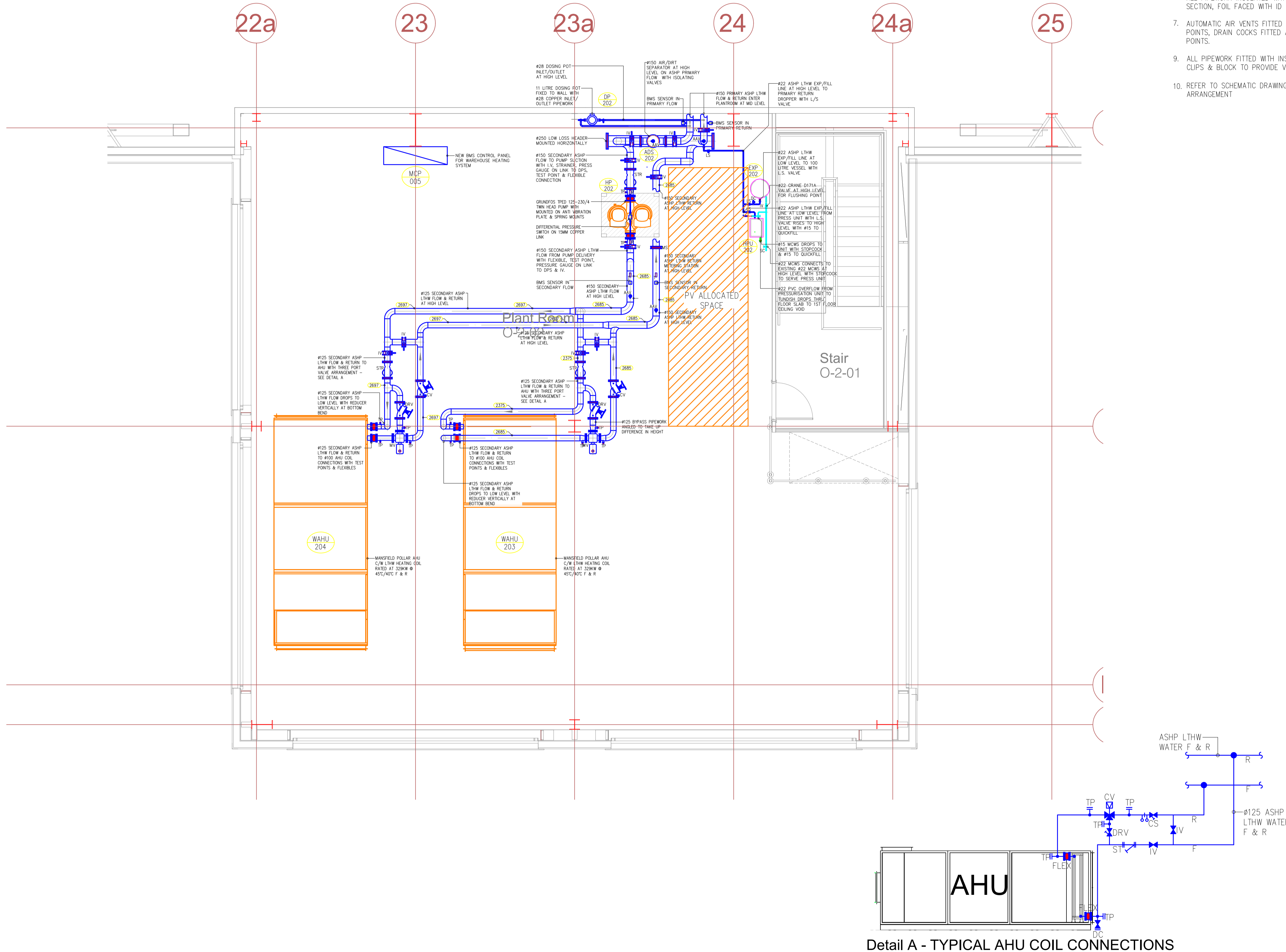
EXPANSION VESSEL SCHEDULE									
REF NO.	MAKE	TYPE	MODEL	LOCATION	CAPACITY (Litres)	OVERALL SIZE (mm)	AIR CHARGE PRESSURE (bar)	WEIGHT (kg)	NOTES
EV-202	GRUNDFOS	FLOOR STANDING VERTICAL	GT-HR-100-PNS	DISTRIBUTION OFFICE 2 LTHW HEATING	100	670x480Ø	1 Bar (Lowest)	20.5	

NOTES

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LEGEND

- ASHP AIR SOURCE HEAT PUMP
- LTHW LOW TEMPERATURE HOT WATER
- HTG HEATING
- MCWS MAINS COLD WATER
- THREE PORT CONTROL VALVE
- DOUBLE REGULATING VALVE
- FLEXIBLE CONNECTION
- BUTTERFLY ISOLATING VALVE
- LEVER BALL ISOLATING VALVE
- STRAINER
- SPRING CHECK VALVE
- COMMISSION VALVE
- METERING STATION
- BINDER TEST POINT
- AUTOMATIC AIR VENT
- BMS TEMPERATURE SENSOR
- DOSING POT
- THERMOMETER
- PRESSURE GAUGE
- DRAINCOCK
- LOCKSHIELD BALL VALVE



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Project: **The Range**
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

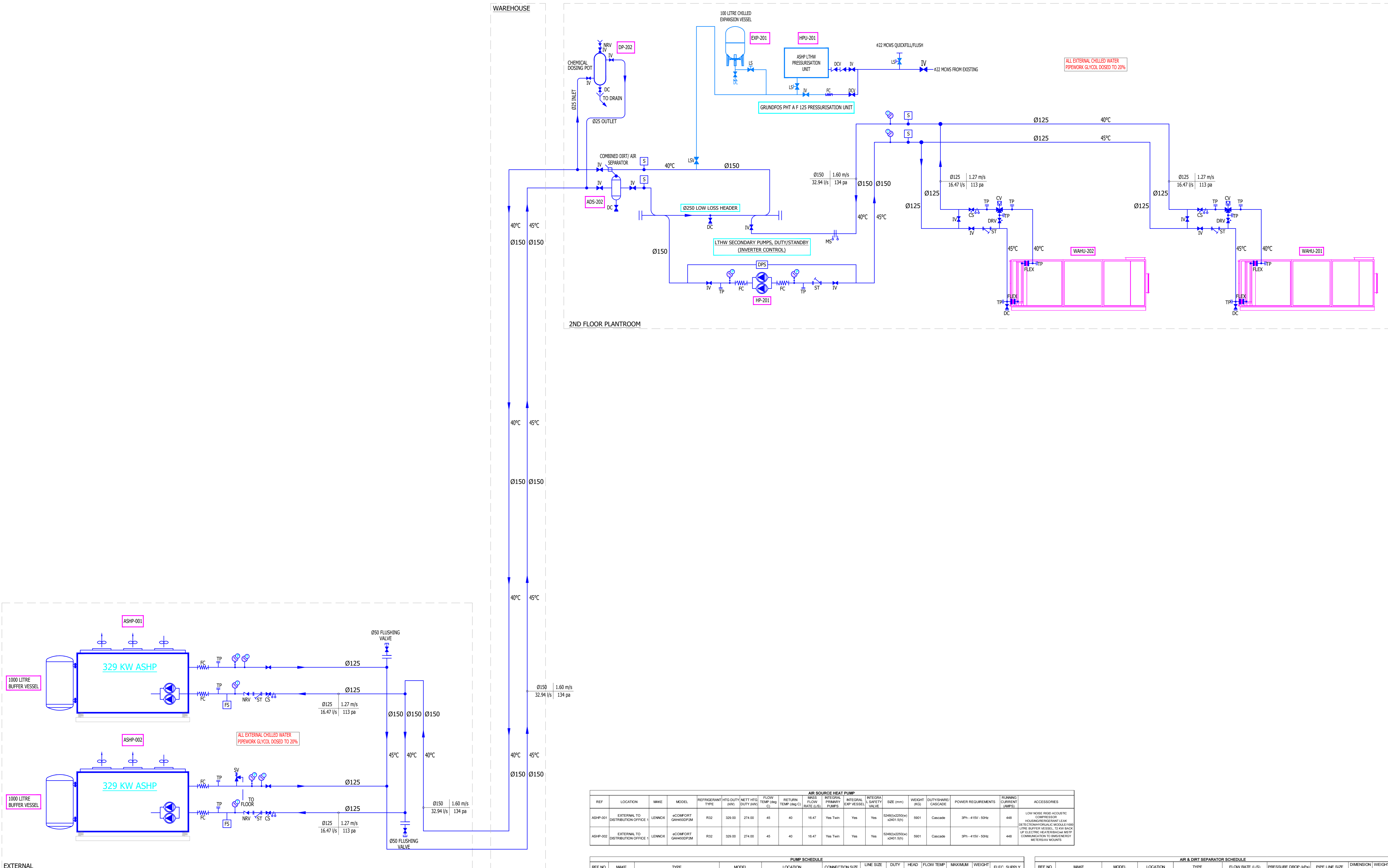
Title: **Distribution Office 2
 Plantroom ASHP Heating
 Services Layout**

Scale at A1:	Date:	Designed:	Drawn:	Design Check:
1:50	10.01.24	L.S	L.S	J.M
Drawing No:	Rev:			
P23027-WMB-WH-02-DR-M-1003	-			

AS FITTED

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 - BMS SENSOR
 - DIFFERENTIAL PRESSURE SWITCH
 - PRESSURE GAUGE
 - TEMPERATURE GAUGE
 - WATER METER
 - BMS



AIR SOURCE HEAT PUMP

REF	LOCATION	MAKE	MODEL	REFRIGERANT	HTG DUTY (kW)	NETT HTG (kW)	FLOW TEMP (°C)	RETURN TEMP (°C)	RANGE FLOW RATE (L/S)	INTEGRAL PRIMARY PUMPS	INTEGRAL EXP VESSEL	INTEGRAL SAFETY VALVE	SIZE (mm)	WEIGHT (kg)	DUTY/SHAR/ CASCADE	POWER REQUIREMENTS	RUNNING CURRENT (amps)	ACCESSORIES
ASHP-001	EXTERNAL TO DISTRIBUTION OFFICE 1	LENNOX	40COMFORT GAH50SPM	R32	329.00	274.00	45	40	16.47	Yes	Yes	Yes	Ø240x(2200x) x(Ø1150)	5901	Cascade	3ph - 415V - 50Hz	448	LOW NOISE RIGID ACOUSTIC HOUSING/HERMETIC LEAK DETECTION/PHENOLIC INSULATION LITRE BUFFER VESSEL TO XIR BACK UP/ELECTRIC HEATER/LOW NOISE COMMUNICATION TO BMS/ELECTRIC METERING POINTS
ASHP-002	EXTERNAL TO DISTRIBUTION OFFICE 1	LENNOX	40COMFORT GAH50SPM	R32	329.00	274.00	45	40	16.47	Yes	Yes	Yes	Ø240x(2200x) x(Ø1150)	5901	Cascade	3ph - 415V - 50Hz	448	LOW NOISE RIGID ACOUSTIC HOUSING/HERMETIC LEAK DETECTION/PHENOLIC INSULATION LITRE BUFFER VESSEL TO XIR BACK UP/ELECTRIC HEATER/LOW NOISE COMMUNICATION TO BMS/ELECTRIC METERING POINTS

PUMP SCHEDULE

REF NO.	MAKE	TYPE	MODEL	LOCATION	CONNECTION SIZE	LINE SIZE (mm)	DUTY (L/s)	HEAD (m)	FLOW TEMP (°C)	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HP-201	GRUNDFOS	TWIN HEAD ELECTRONIC CIRCULATOR	TRED125-2304 A-F-A-BO2E-0W3	DISTRIBUTION OFFICE 1 SECONDARY LTHW	125Ø	150Ø	33.200	225	45	30.0	768	415V 3ph 50Hz

AIR & DIRT SEPARATOR SCHEDULE

REF NO.	MAKE	MODEL	LOCATION	TYPE	FLOW RATE (L/S)	PRESSURE DROP (kPa)	PIPE LINE SIZE	DIMENSION Ø x H (mm)	WEIGHT (kg)
ADS-201	FABRICATED PRODUCTS	CWAD-150	DISTRIBUTION OFFICE 1	FLANGED MICROBUBBLE	33.2	5.00	150mm	325 x 1020	42

PRESSURISATION UNIT SCHEDULE

REF NO.	MAKE	TYPE	MODEL	LOCATION	WORKING PRESSURE (bar)	CON SIZE (mm)	OVERALL SIZE (mm)	FULL LOAD CURRENT (amps)	ELEC. SUPPLY
HPU-201	GRUNDFOS	FLOOR MOUNTED	PHTA-F125	DISTRIBUTION OFFICE 1	0.5 - 2.5 BAR	15	Ø240x(1070x) x(Ø320)	0.48	230V 1ph 50Hz

CHEMICAL DOSING POT SCHEDULE

REF NO.	MAKE	MODEL	LOCATION	SERVING	CAPACITY (Litres)	OVERALL SIZE (mm)	WEIGHT (kg)
DP-201	FABRICATED PRODUCTS	DP 11	DISTRIBUTION OFFICE 1 PLANTROOM	LTHW	869	869x320x600	20

EXPANSION VESSEL SCHEDULE

REF NO.	MAKE	TYPE	MODEL	LOCATION	CAPACITY (Litres)	OVERALL SIZE (mm)	AIR CHARGE PRESSURE (bar)	WEIGHT (kg)	NOTES
EV-201	GRUNDFOS	FLOOR STANDING VERTICAL	GT-HR-100-FMG	DISTRIBUTION OFFICE 1 LTHW HEATERS	100	Ø700x600	1 Bar (Lowside)	20.5	

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES (LEICESTER) LTD
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 Leicester
 LE12 8EB
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BES **REA**

The Range
 Home, Leisure & Garden
PLOT 4000 STOWMARKET

Client: **winvic**

Title: **Distribution Office 1 Warehouse Frost Protection ASHP LTHW Heating Schematic**

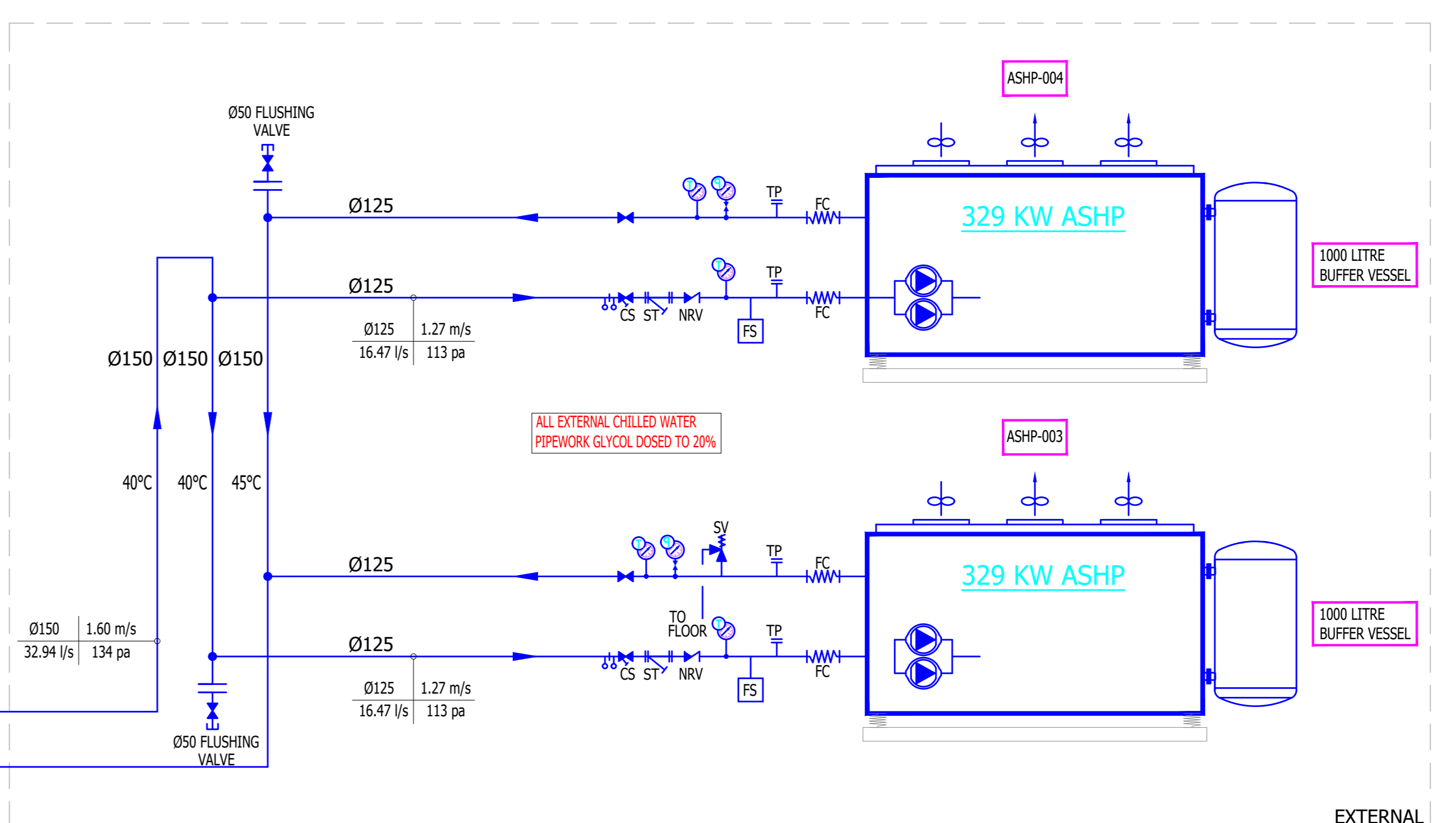
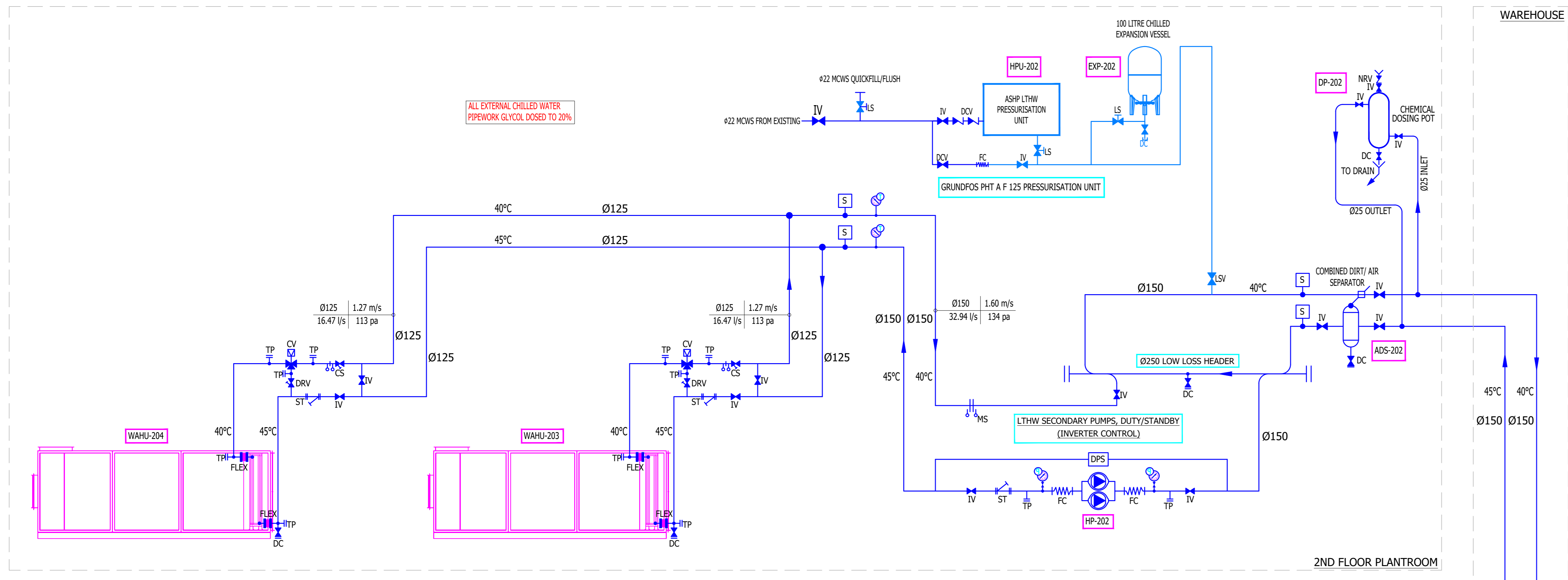
Scale of A5	Date:	Designed:	Drawn:	Design Check:
1:50	10.03.24	L.S	L.S	J.M

Drawing No: **P23027-WM-WB-ZZ-DR-M-0100**

AS FITTED

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 - PRESSURE GAUGE
 - TEMPERATURE GAUGE
 - WATER METER
 - TO BMS



REF	LOCATION	MAKE	MODEL	REFRIGERANT TYPE	HTG OUTY (kW)	NETY HTG OUTY (kW)	FLOW TEMP (°C)	RETURN TEMP (°C)	SAFETY VALVE	INTEGRAL EXP. VESSEL	INTEGRAL SAFETY VALVE	SIZE (mm)	WEIGHT (kg)	OUTYSHARE/ CASCADE	POWER REQUIREMENTS	RUNNING CURRENT (Amps)	ACCESSORIES
ASHP-003	EXTERNAL TO DISTRIBUTION OFFICE 2	LENKOX	HC COMFORT GAH40DP2M	R32	320.00	274.00	45	40	16.47	Yes Twin	Yes	50480(2200W) x2401 50%	5901	Cascade	3Ph - 415V - 50Hz	448	LOW NOISE PIPED ACOUSTIC COMPRESSOR DETROUCHANT/REVERSARY LEAK DETECTOR/PHENOLIC/C MODULION LTR BUFFER VESSEL TO AW BACK UP ELEC. THE HEAT EXCHANGER W/PT GUARANTEE TO IMPROVE EFFY METRE/RY W/RYTS
ASHP-004	EXTERNAL TO DISTRIBUTION OFFICE 2	LENKOX	HC COMFORT GAH40DP2M	R32	320.00	274.00	45	40	16.47	Yes Twin	Yes	50480(2200W) x2401 50%	5901	Cascade	3Ph - 415V - 50Hz	448	LOW NOISE PIPED ACOUSTIC COMPRESSOR DETROUCHANT/REVERSARY LEAK DETECTOR/PHENOLIC/C MODULION LTR BUFFER VESSEL TO AW BACK UP ELEC. THE HEAT EXCHANGER W/PT GUARANTEE TO IMPROVE EFFY METRE/RY W/RYTS

REF NO.	MAKE	TYPE	MODEL	LOCATION	CONNECTION SIZE	LINE SIZE	DUTY (L/S)	HEAD (KPa)	FLOW TEMP (°C)	MAXIMUM CURRENT (A)	WEIGHT (kg)	ELEC. SUPPLY
HP-202	GRUNDFOS	TWIN HEAD ELECTRONIC CIRCULATOR	TRENTS-2204 A.F.A-BOOE-0W3	DISTRIBUTION OFFICE 2 SECONDARY LTHW	125/40	150/40	33.200	225	45	30.0	788	415V 3Ph 50Hz

REF NO.	MAKE	MODEL	LOCATION	TYPE	FLOW RATE (L/S)	PRESSURE DROP (kPa)	PIPE LINE SIZE	DIMENSION	WEIGHT
ADS-202	FABRICATED PRODUCTS	CVAD-150	DISTRIBUTION OFFICE 2	FLANGED MICROBUBBLE	33.2	5.00	150mm	325 x 1020	42

REF NO.	MAKE	TYPE	MODEL	LOCATION	WORKING PRESSURE (Bar)	CONNECTION SIZE	OVERALL SIZE (mm)	FULL LOAD CURRENT (Amps)	ELEC. SUPPLY
HP-202	GRUNDFOS	FLOOR MOUNTED	PHTA-F125	DISTRIBUTION OFFICE 2	0.5 - 2.5 BAR	15	852(h) x 470(w) x 202(g)	0.48	230V 1Ph 50Hz

REF NO.	MAKE	MAX WORKING PRESSURE (Bar)	LOCATION	SERVING	CAPACITY (Litres)	OVERALL SIZE (mm)	WEIGHT (kg)
DP-202	FABRICATED PRODUCTS	DP 11	DISTRIBUTION OFFICE 1 PLANTROOM	LTHW	11	869x202Wx204D	20

REF NO.	MAKE	TYPE	MODEL	LOCATION	CAPACITY (Litres)	OVERALL SIZE (mm)	AIR CHARGE PRESSURE (Bar)	WEIGHT (kg)	NOTES
EV-202	GRUNDFOS	FLOOR STANDING VERTICAL	GT-4R-100-PM	DISTRIBUTION OFFICE 2 LTHW HEATING	100	670x400	1 Bar (Lowest)	20.5	

REV	DATE	DESCRIPTION	BY

WM BUILDING SERVICES
WM BUILDING SERVICES (LEICESTER) LTD
657 Melton Road
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Project: **The Range** Home, Leisure & Garden
PLOT 4000 STOWMARKET

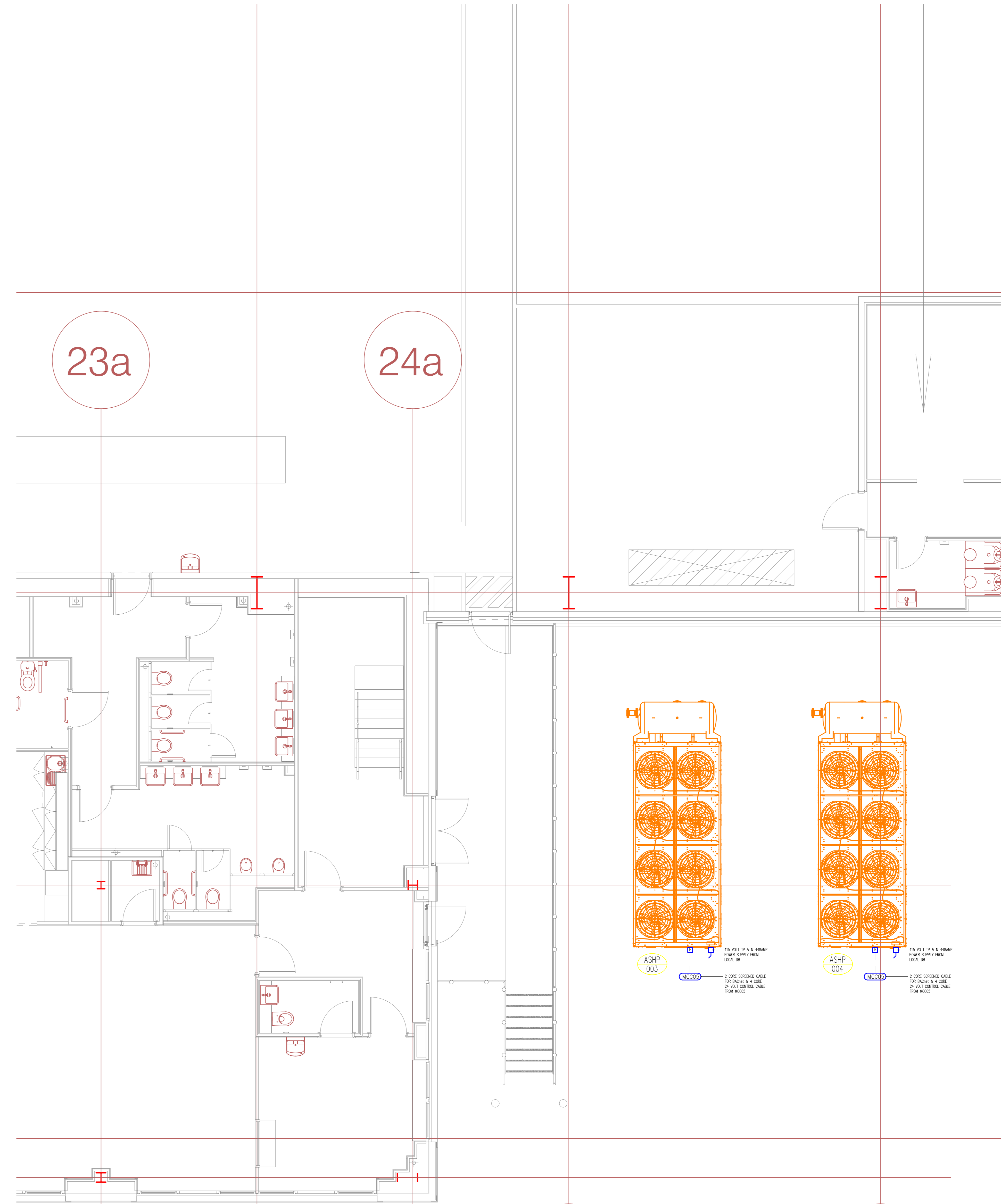
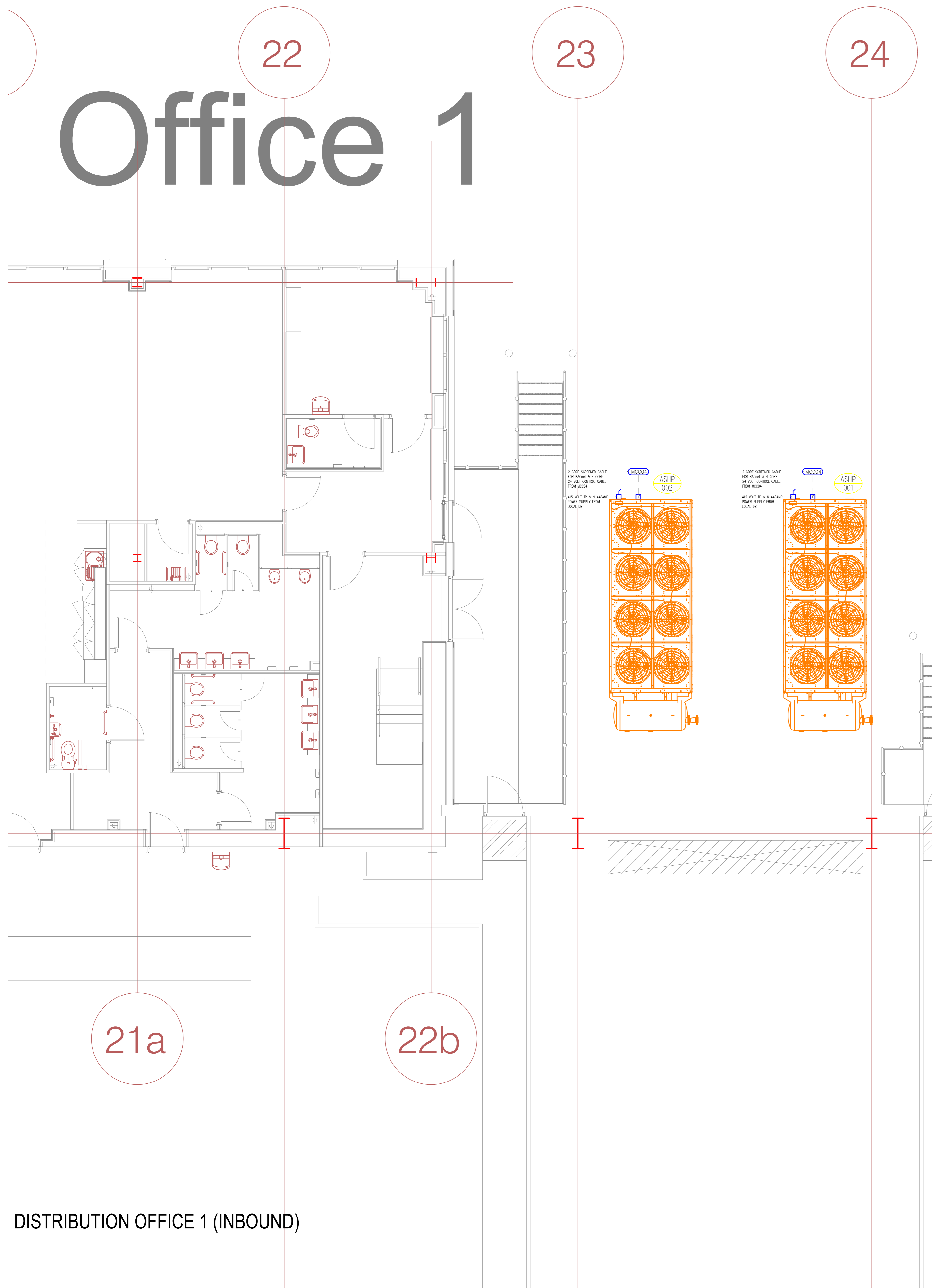
Client: **winvic**

Title: **Distribution Office 2 Warehouse Frost Protection ASHP LTHW Heating Schematic**

Scale of A6: Date: 10/03/24
Designed: L.S.
Drawn: L.S.
Design Check: J.M.
Drawing No: P23027-WMB-WH-ZZ-DR-M-0101
Rev: -

AS FITTED

Office 1



Office 2

DISTRIBUTION OFFICE 2 (OUTBOUND)

DISTRIBUTION OFFICE 1 (INBOUND)

- NOTES**
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 3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
 4. ALL AUTOMATIC CONTROL CABLING AS CONTROL PANEL WIRING DIAGRAMS
 5. SCREENED 230 VOLT RATED CABLES USED FOR ALL SENSORS/METERS

REV	DATE	DESCRIPTION	BY
-----	------	-------------	----



WM BUILDING SERVICES (LEICESTER) LTD
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winvic

Title: Distribution Office No. 1 & 2 External ASHP Plant Mechanical Power & Controls Wiring

Scale of A3	Date	Designed	Drawn	Design Check
1:50	10/02/24	L5	L5	J.M.

Drawing No: P23027-WMB-ZZ-00-DR-M-0906

AS FITTED