DATE	REV	DESCRIPTION
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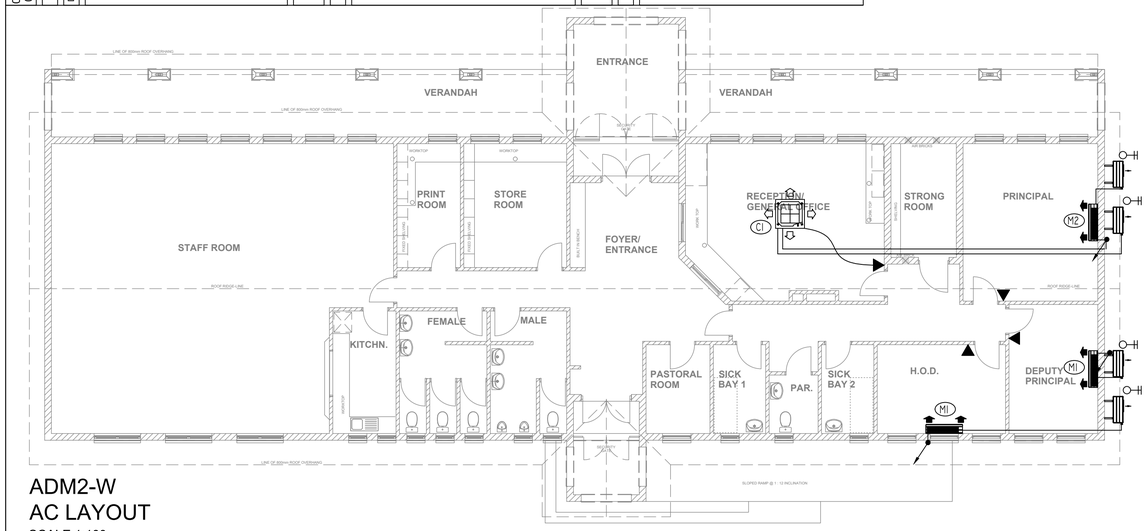
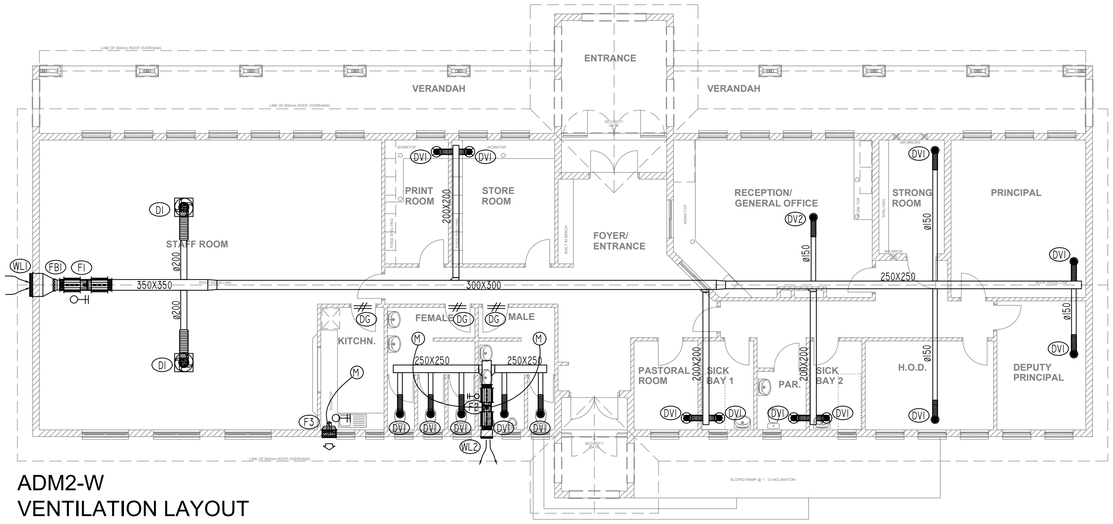
PROJECT NOTES: REFER TO SITE RETICULATION LAYOUT FOR DB NAME



ADM2-W
AC LAYOUT
SCALE 1:100



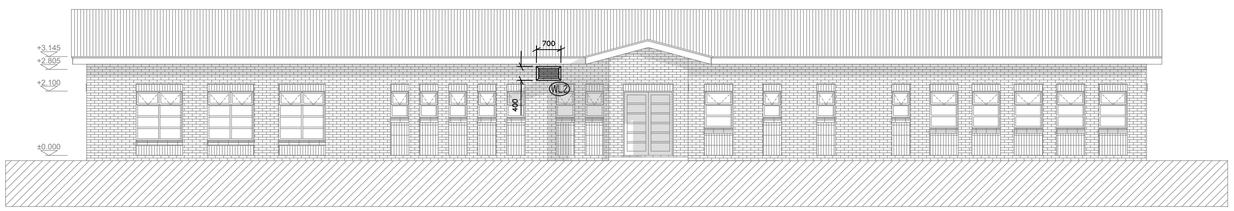
ADM2-W
VENTILATION LAYOUT
SCALE 1:100

Fan Schedule

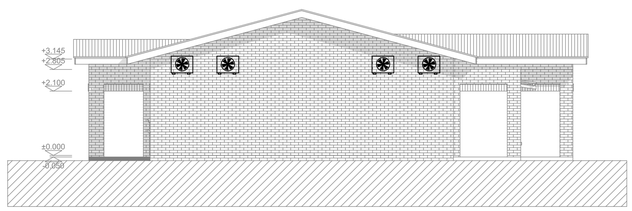
Unit Nr	F1	F2	F3	F4	F5	F6
Type	In-Line Mixed Flow	In-Line Mixed Flow	Window/Wall	In-Line Mixed Flow	Ceiling	Axial Flow
Diameter (mm)	315	315	150	315	250	400
Air Flow (l/s)	375	300	83	265	80	1100
Static Pressure (Pa)	250	150	-	250	-	260
Alt (m)	1400	1400	1400	1400	1400	1400
Power Requirements	240/1/50	240/1/50	240/1/50	240/1/50	240/1/50	400/3/50
Power Input (kW)	0,26	0,26	0,03	0,26	0,03	0,55
Extras	Sound Att (600L), speed controller, 7-day timer	Sound Att (600L), speed controller, motion sensor	Motion Sensor	Sound Att (600L), speed controller, 7-day timer	-	Melinex Sound Att, Stop/Start

AC Unit Schedule

Unit Nr	M1	M2	C1	C2
Type	Inverter Mid-Wall	Inverter Mid-Wall	Inverter Cassette	Inverter Cassette
Cooling Capacity (kW)	3,5	5	7	10,5
Heating Capacity (kW)	3,5	5	7	10,5
Air Flow (l/s)	150	180	305	500
Power Requirements	240/1/50	240/1/50	240/1/50	400/3/50
Power Input (kW)	1,1	1,65	2,45	3,95
Refrigerant	R410A	R410A	R410A	R410A
Extras	-	-	Wired Remote Controller	Wired Remote Controller

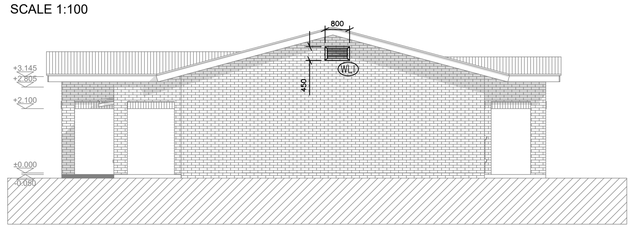


EAST ELEVATION
SCALE 1:100



NORTH ELEVATION
SCALE 1:100

WEST ELEVATION
SCALE 1:100



SOUTH ELEVATION
SCALE 1:100

LEGEND

M1	Mid-Wall Split unit (Inverter Type) - Heatpump Reverse Cycle - 3.5kW (Nominal Capacity)
M2	Mid-Wall Split unit (Inverter Type) - Heatpump Reverse Cycle - 5.0kW (Nominal Capacity)
C1	Cassette Unit - 4way blow (Inverter Type) - Heatpump Reverse Cycle - 7kW (Nominal Capacity)
C2	Cassette Unit - 4way blow (Inverter Type) - Heatpump Reverse Cycle - 10,5kW (Nominal Capacity)
F1	In-Line Mixed Flow Fan 375l/s @ 250Pa @ 1400m Alt c/w sound attenuators & speed controller
F2	In-Line Mixed Flow Fan 300l/s @ 150Pa @ 1400m Alt c/w sound attenuators & speed controller
F3	Window/Wall Fan Xpelair GX6 Type - 83l/s c/w wall sleeve
F4	In-Line Mixed Flow Fan 265l/s @ 250Pa @ 1400m Alt c/w sound attenuators & speed controller
F5	CEILING EXTRACT FAN XPELAIR CX10 TYPE
F6	Axial Flow Fan (Spark Proof) 1100l/s @ 260Pa @ 1400m Alt - 3PH c/w supporting brackets
SI	SOUND ATTENUATOR - MELINEX LINED - 1.5D PODDED (TO MATCH FAN F6)
SCL	V-Bank Stainless Steel 430 Canopy 1400x1400mm (600High) c/w vapour proof light fittings (2 off), oil trays & S/S baffle filters
CU	COLD ROOM COMPLETE AS PER DETAILED SPECIFICATION
WL1	Weather Louver 700x350mm - (Neck Size) c/w insect screen - Bronze Anodised
WL2	Weather Louver 600x300mm - (Neck Size) c/w insect screen - Bronze Anodised
FBI	Filter Bank c/w 50mm Thick washable pleated filter - 400x400mm
DI	Rickard Air - CRD Type Dia 150mm Diffuser c/w fixing ring - White
D2	Rickard Air - CRD Type Dia 200mm Diffuser c/w fixing ring - White
DG	Door Grille 400x300mm - Natural Anodised
DVI	Disc Valve Dia 150mm - White
DV2	Disc Valve Dia 200mm - White
S/S	STOP/START FOR THE EXTRACT FAN F6 - BY OTHERS
———	CONDENSATE DRAIN PIPING
———	REFRIGERATION PIPING - COPPER R410A TYPE (MAKSAL)
O—H	2POLE ISOLATOR - BY OTHERS
O—HH	3POLE ISOLATOR - BY OTHERS
▼	REMOTE CONTROLLER
M	MOTION SENSOR

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PROJECT TITLE: DBSA FS MEGA SCHOOLS

CLIENT DETAILS: DBSA Development Bank of Southern Africa; education Department of Education FREE STATE PROVINCE — FREE STATE DEPARTMENT OF BASIC EDUCATION

CLIENT APPROVAL:

DRAWING DESCRIPTION: ADM2-W MECHANICAL LAYOUT

DESIGN: H. HORN, Pr Tech Mech: 2020300889

CHECKED: H. HORN, Pr Tech Mech: 2020300889

SCALE	1:100	DRAWN	R.M	DATE	MAY 2021
PROJECT NUMBER	EE1525	DRAWING NUMBER	ADM2-W		

CONCEPT DRAWING	TENDER DRAWING	CONSTRUCTION DRAWING	AS-BUILT DRAWING
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