



North

Ground Floor

Ducting Schedule			
MARK	DESCRIPTION	SIZE	Count
A1	Straight Duct	850x550	104
A10	Bend 90°	400x400	1
A2	Bend 90°	850x550	3
A3	Equal Taper	850x550 > 550x450	2
A4	Straight Duct	550x450	69
A5	Straight Duct	400x400	8
A6	Straight Duct c/w 25mm Sonic	850x450	108
A7	Bend 90° c/w 25mm Sonic	850x550	5
A8	Equal Taper c/w 25mm Sonic	850x550 > 550x450	2
A9	Straight Duct c/w 25mm Sonic	550x450	69
C1	Endcap	550x450	2
C2	Spigot	400x400	2
C3	Endcap	550x450	2
C4	Plenum	550x300	22
FD 1	Fire Damper	850x450	2
FD 2	Fire Damper	850x550	2
HB1	Heater Bank 6kW c/w matching OBD and actuator (3 step)	400x400	2

Mechanical Equipment Schedule								
MARK	DESCRIPTION	COOLING_BTU	HEATING_BTU	FLOW	POWER	PHASE	VOLTAGE	Count
AHU01	Air Handling Unit c/w Prime and Bag Filters	48.9kW	18kW	22200/s	20kW	3	400V	1
AHU02	Air Handling Unit c/w Prime and Bag Filters	60kW	28kW	26300/s	30kW	3	400V	1
CH1	Chiller - DC Scroll Inverter, two step		122kW		42kW	3	400V	1
HM1	Humidifier			25kg/h	18.75kW	3	400V	2
P1	Chilled Water Pump			5.5/s	2.2kW	3	400V	1
P2	Chilled Water Pump			5.5/s	2.2kW	3	400V	1

Aire Terminal Schedule				
MARK	DESCRIPTION	SIZE	COLOUR	Count
WL 1	Hinged Weather Louvre c/w matching OBD	400x400	N/A	2
RA 1	Return Air Grille c/w OBD	500x250	N/A	23
SAG 1	Side Wall Variable Volume Diffuser c/w Matching OBD, actuator and Heater bank (2.5kW)	500x250	N/A	23

LEGEND	
(T)	TEMPERATURE SENSOR
(MS)	MOTION SENSOR
(C)	CONTROL SWITCH
---	AC DRAIN LINE
---	AC REFRIGERANT LINE
1 PHASE	
3 PHASE	
A6	SUPPLY AIR DUCT
A1	RETURN AIR DUCT

NOTES / LEGEND

KOPIEREG IS GEVESTIG IN DIE REGERING VAN DIE REPUBLIEK VAN SUID-AFRIKA KRAGTENS DIE WET OP KOPIEREG (WET 98 VAN 1978).

REPUBLIC OF SOUTH AFRICA IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978).

CLIENT FILE NUMBER

REFERENCE DRAWINGS

NUMBER	REVISION	DRAWING DESCRIPTION

APPROVED BY COUNCIL / CLIENT

CITY ENGINEER / CLIENT REG. NO. DATE

AMENDMENTS CODE

A.B.C. / : BEFORE TENDER
 0 / : TENDER DRAWING
 1,2,3. / : AFTER TENDER
 Z / : AS BUILT

IA: BY CLIENT
 IB: BY ARCHITECT
 IC: BY MECHANICAL OR ELECTRICAL
 ID: BY BVI
 IE: BY OTHER ()

DATE	INITIAL	No./CODE	REVISION DESCRIPTION
2021.04.29	D.K	AV	FOR INFORMATION

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CLIENT

nmisa
 National Metrology Institute of South Africa

PROJECT

**NMISA CAMPUS
 PRETORIA**

DRAWING TITLE

**MECHANICAL INSTALLATION
 HVAC GROUND LEVEL**

APPROVED BY BVI

D. Kapp 201570070 29 April 2021
 ENGINEER/TECHNOLOGIST REG. NO. DATE

SCALE	1:200	DRAWN	N/R
DESIGNED	D. Kapp	CHECKED	R.H

LAYERS USED	PLAN NUMBER	REVISION NO.	DATE SAVED
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