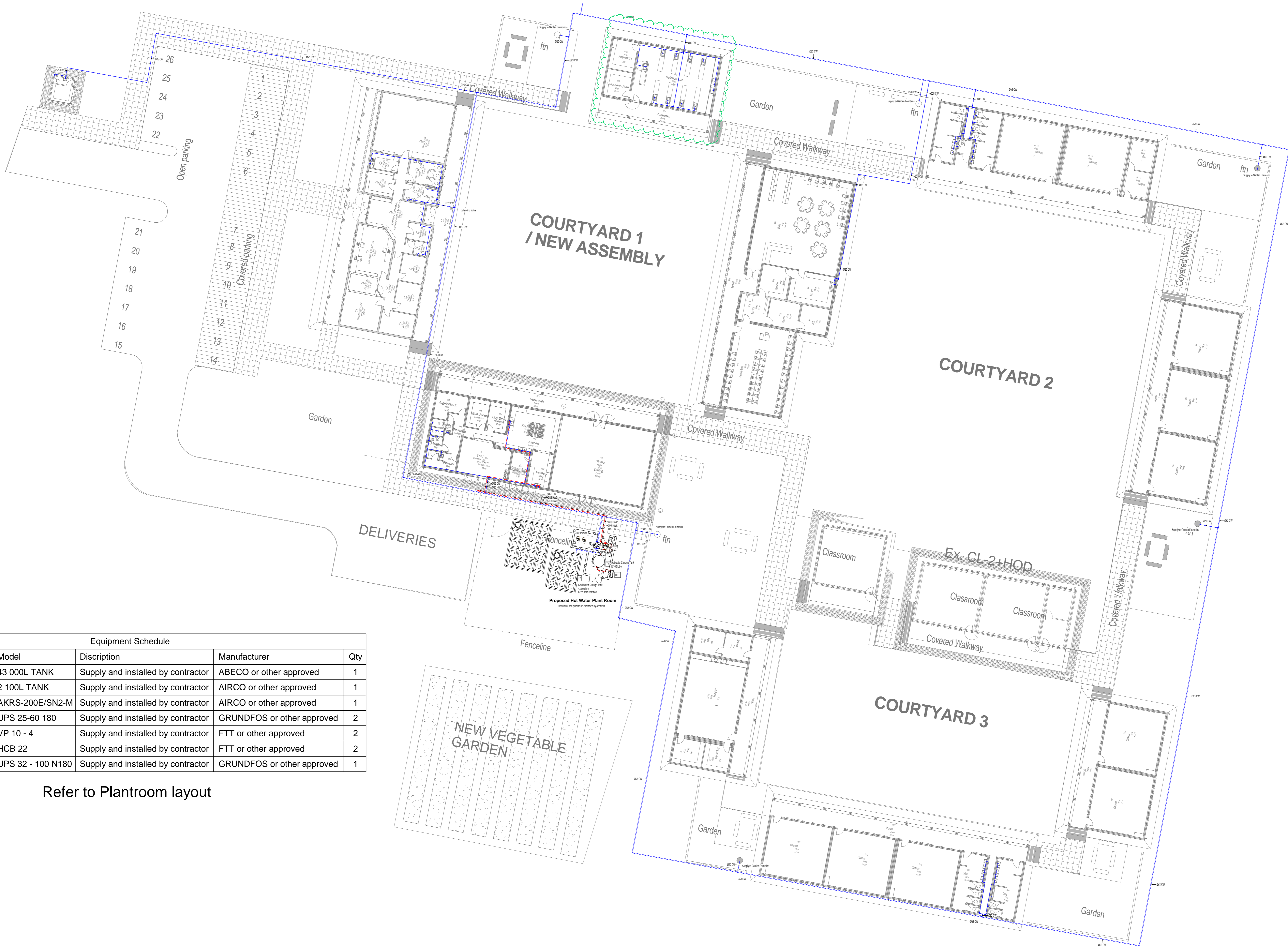




Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
T2	Cold water tank	43 000L TANK	Supply and installed by contractor	ABECO or other approved	1
T3	Hot water tank	2 100L TANK	Supply and installed by contractor	AIRCO or other approved	1
HP1	Heat Pump	AKRS-200E/SN2-M	Supply and installed by contractor	AIRCO or other approved	1
P2	Recirculation Pump	UPS 25-60 180	Supply and installed by contractor	GRUNDFOS or other approved	2
P3	Cold water Pump	VP 10 - 4	Supply and installed by contractor	FTT or other approved	2
P4	Hot water Pump	HCB 22	Supply and installed by contractor	FTT or other approved	2
P5	Circulation Pump	UPS 32 - 100 N180	Supply and installed by contractor	GRUNDFOS or other approved	1

Refer to Plantroom layout



1. FOR GENERAL NOTES REFER TO DRAWING.
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#### LEGEND

- WATER METER
- BALANCING VALVE
- ISOLATING VALVE
- MIXING VALVE
- PIPE CONNECTION
- PIPE RISER
- PIPE DROPPER
- HWS - HOT WATER SUPPLY
- HWR - HOT WATER RETURN
- CW - COLD WATER
- FW - FIRE WATER

NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER

Stamped by Plans Approval Committee

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Approved as coordination services by Principal Agent

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

CLIENT NAME:  
  
Department of Education and Sport Development  
Department van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Thibedi le ya Mefumaneke  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:  
  
**UKUZA CONSULTING** (PTY) LTD

CONSULTANTS DETAILS:  
Mechanical Engineers  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Vereeniging  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za  
  
**DIHLASE**

MECHANICAL

PROJECT NAME:

**KGOSI SHOPE  
SECONDARY SCHOOL**

SHEET TITLE:

**OVERALL DOMESTIC WATER PLAN**

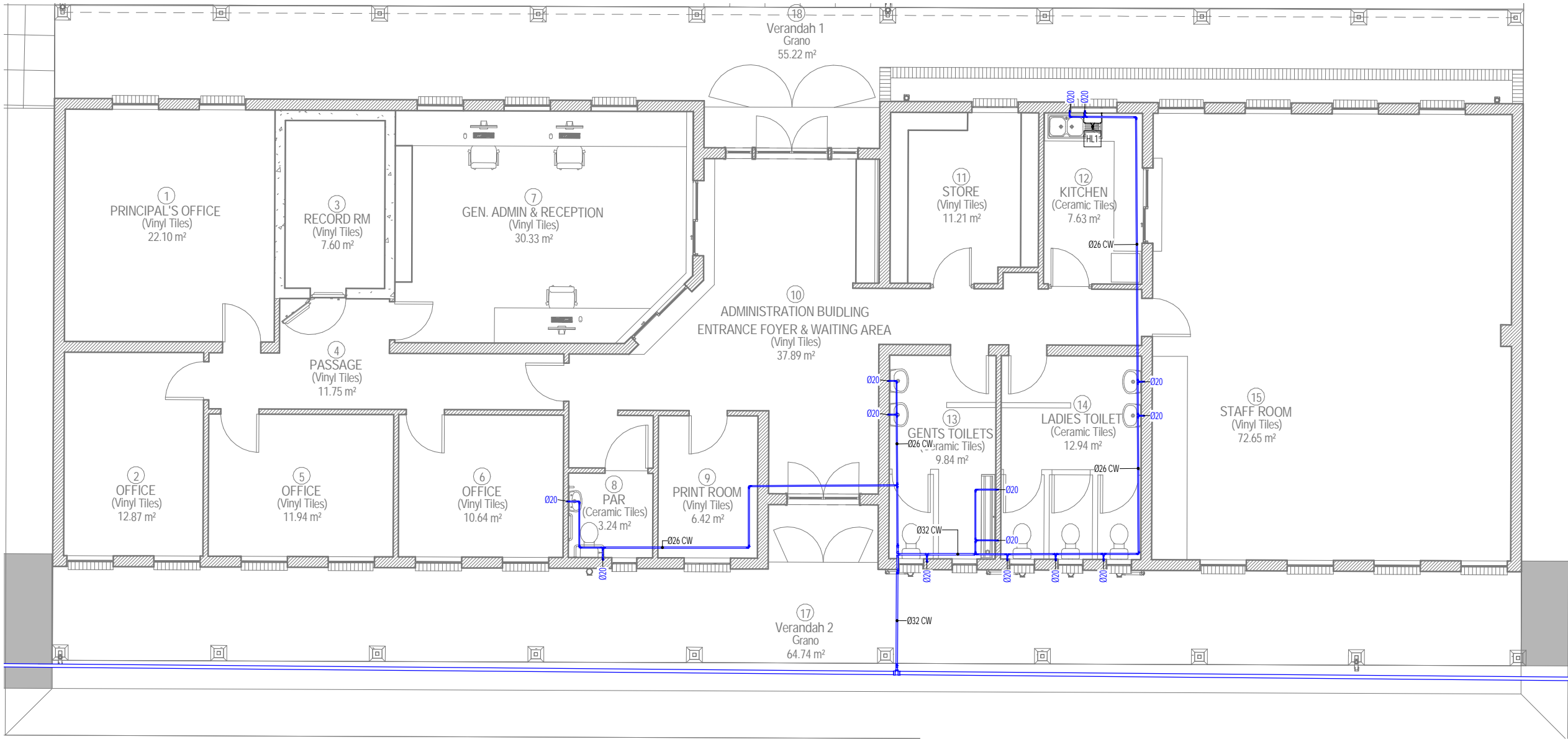
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PAPER SIZE: A0	DESIGNED BY: Z VORAGEE
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DRAWING NUMBER:  
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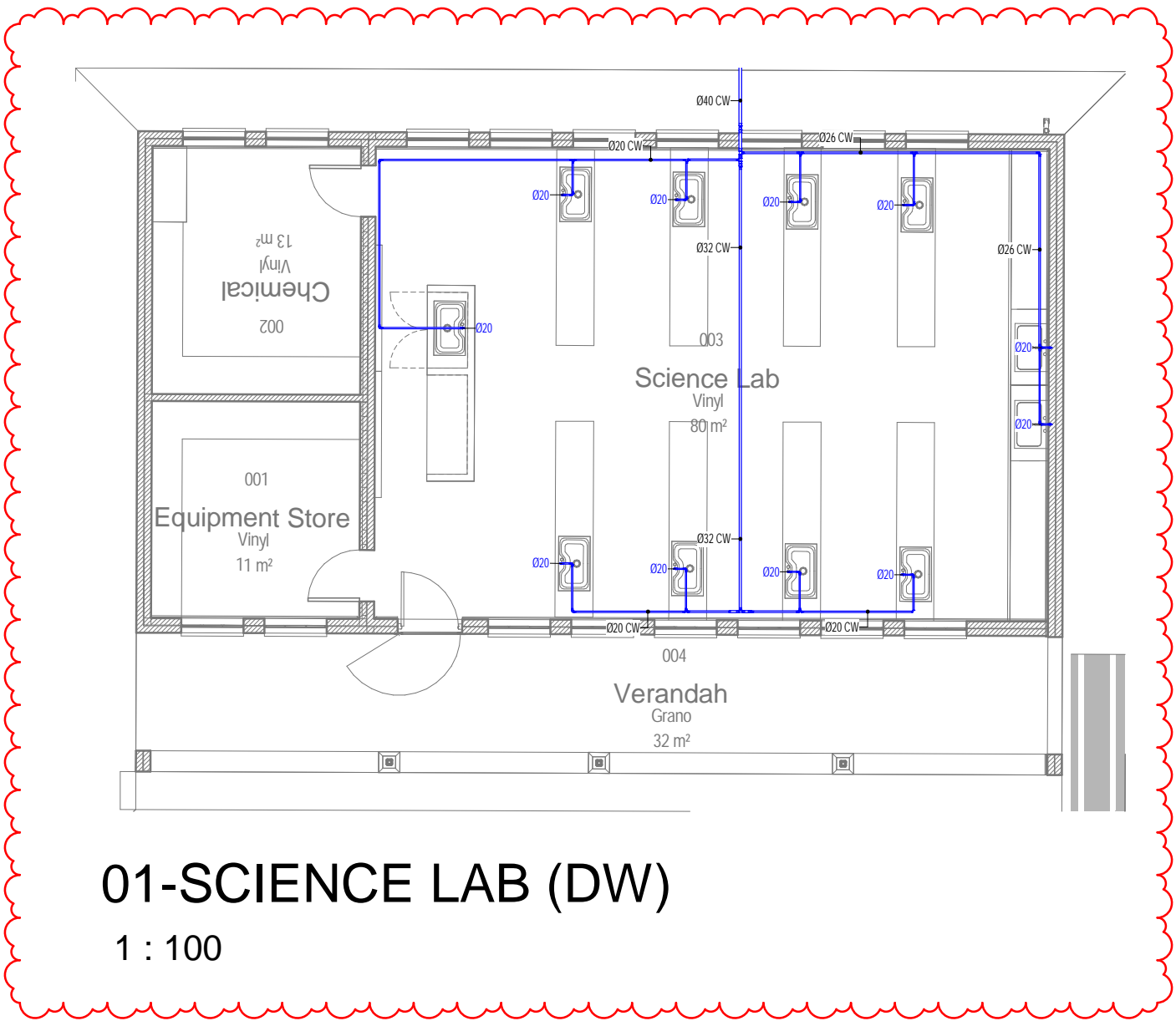
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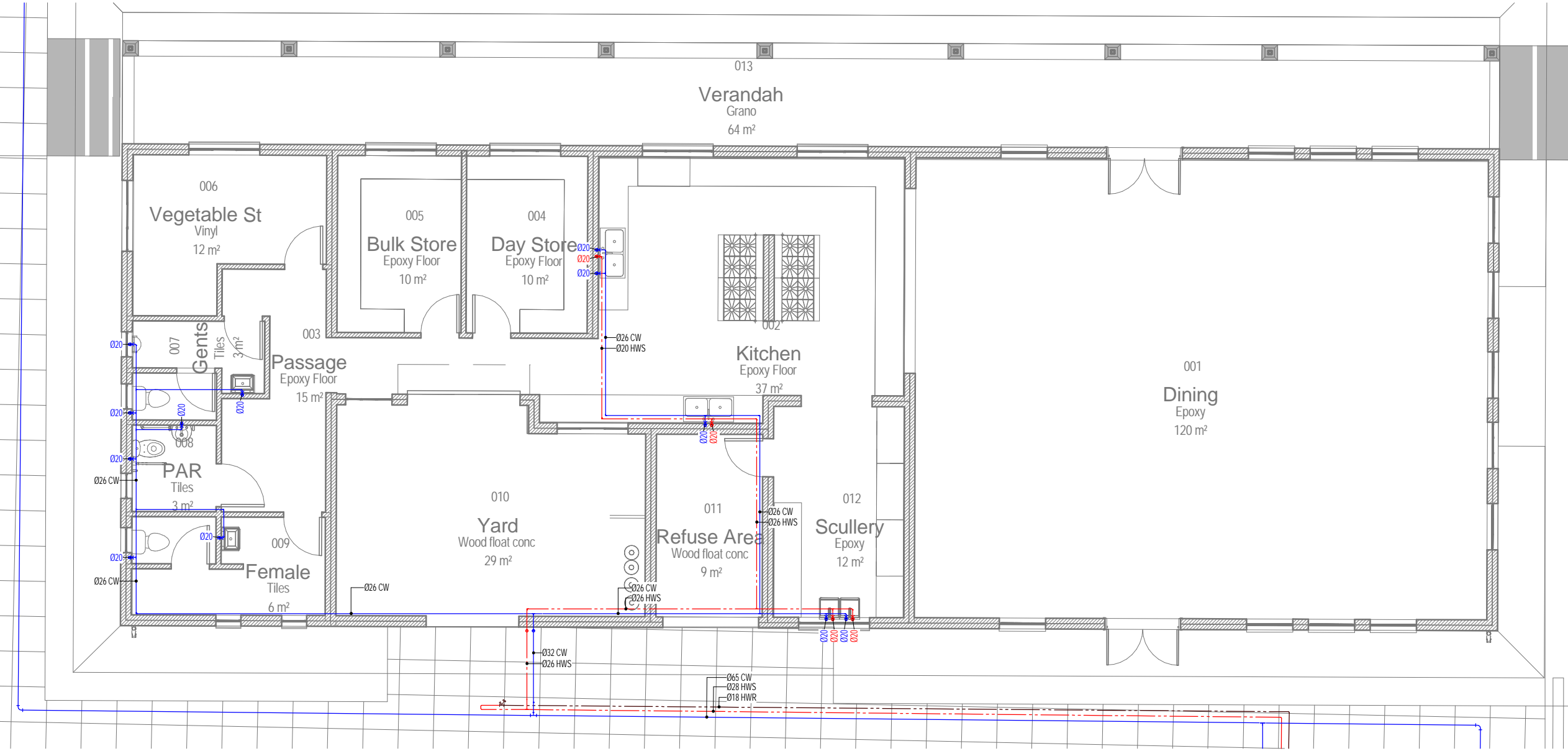
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FOR TENDER PURPOSES	
FOR CONSTRUCTION	



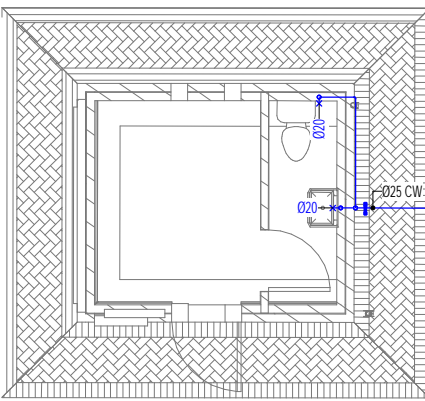
01-ADMIN BLOCK (DW)  
1 : 100



01-SCIENCE LAB (DW)  
1 : 100



01-KITCHEN & DINNING (DW)  
1 : 100



01-GUARD HOUSE (DW)  
1 : 100

Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
HL1	Hydroboil	ZIP HYDRO	Supply and installed by contractor	ZIP or other approved	5 Litre	1

- NOTES:**
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NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER

CLIENT NAME:



**Education and Sport Development**  
Department of Education and Sport Development  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Tlhabololo ya Molekane  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:



**UKUZA CONSULTING** (PTY) LTD

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za



MECHANICAL

PROJECT NAME:

KGOSI SHOPE  
SECONDARY SCHOOL

SHEET TITLE:

DOMESTIC WATER PLANS

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER:

D3888-DW-A1-01








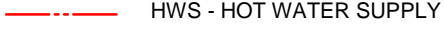
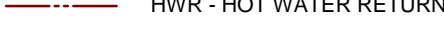
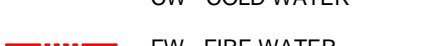

REV:

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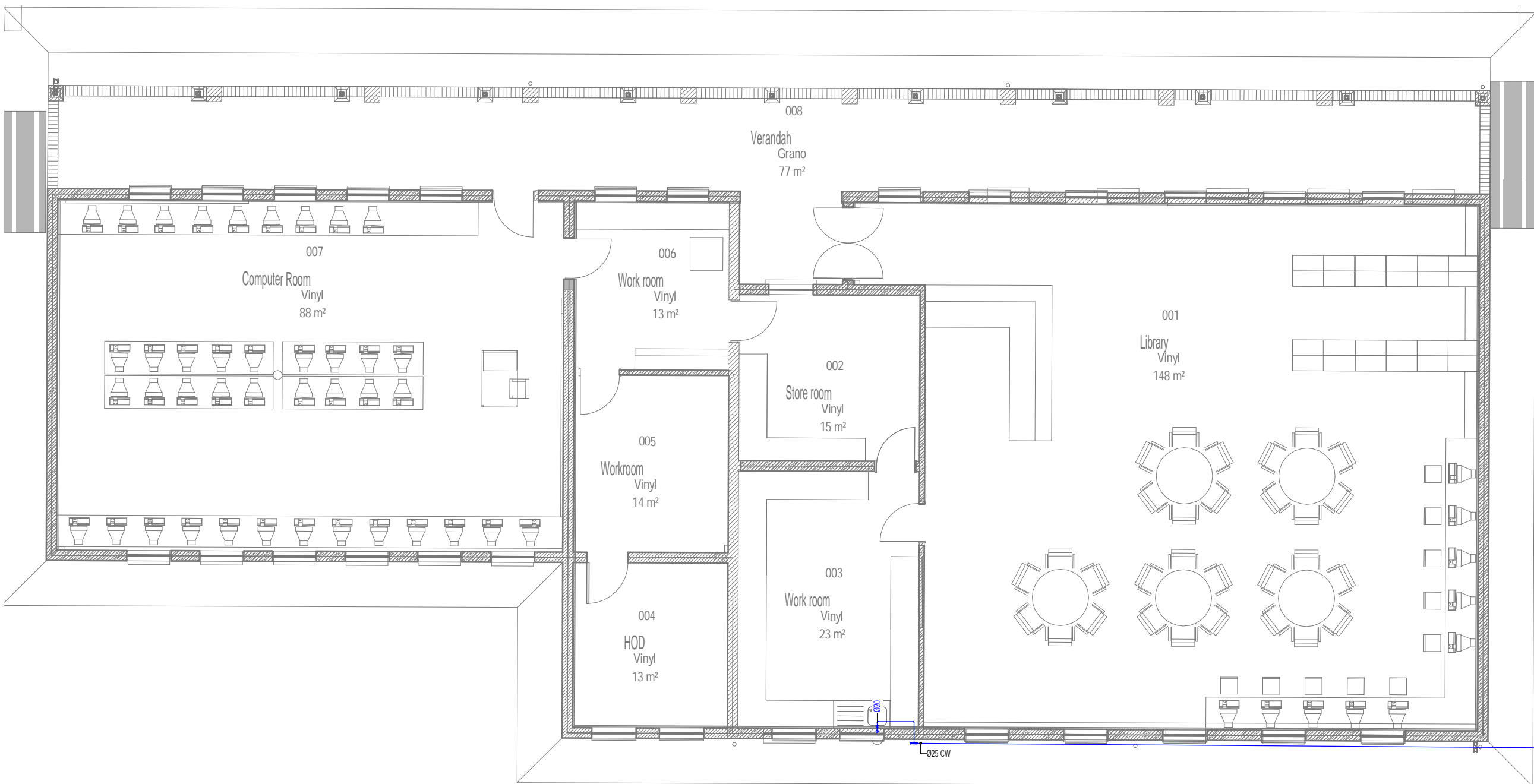
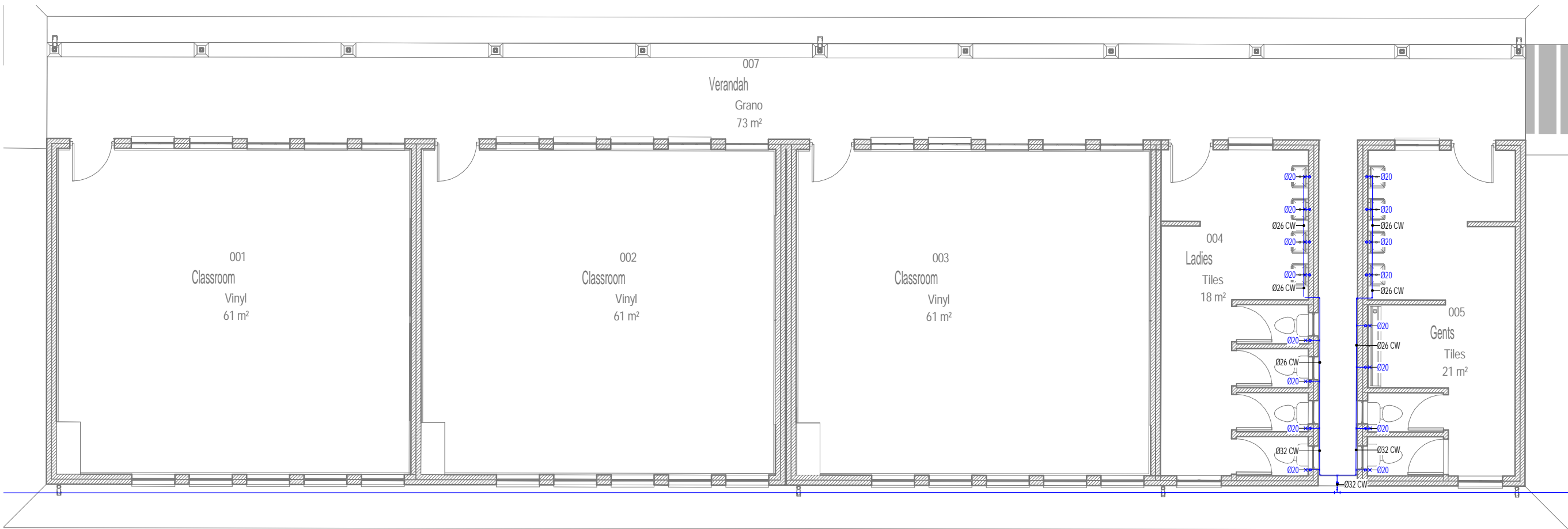
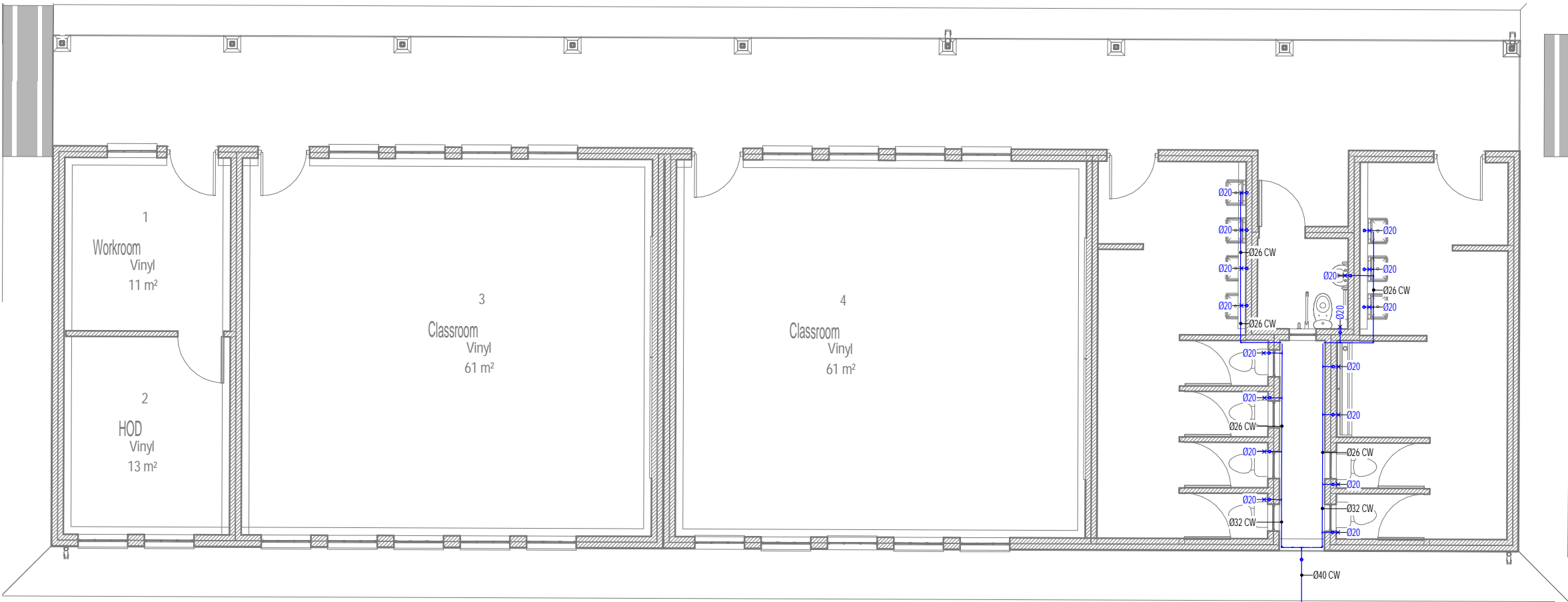
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FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

LEGEND

-  WATER METER
-  BALANCING VALVE
-  ISOLATING VALVE
-  MIXING VALVE
-  PIPE CONNECTION
-  PIPE RISER
-  PIPE DROPPER
-  HWS - HOT WATER SUPPLY
-  HWR - HOT WATER RETURN
-  CW - COLD WATER
-  FW - FIRE WATER

NOTES

- 1 All HFC water external pipework to be Multi-layer Mapla with Gerbent RED & BLUE Lagging.
- 2 All pipeworks chased in walls to be Multi-layer Mapla.
- 3 All hot water pipework chased in wall to be Gerbent Mapla with Gerbent Red Lagging, specification (Gerbent Red & Blue Lagging).
- 5 All fire pipework above ground to be medium black & painted with red oxide. Pipework to be in accordance with SABS 62-1, or SABS 62-2 or both. Fittings to be SABS 615.
- 6 All cold water underground pipework to be Class 10 polyethylene. Piping to be SABS 966.
- 7 All geyser hot water by heat pumps.



NOTES:

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NO	DATE	DESCRIPTION	DRN BY
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CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER

CLIENT NAME:



ARCHITECT DETAILS:



UKUZA CONSULTING (PTY) LTD

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za



MECHANICAL

PROJECT NAME:

KGOSI SHOPE  
SECONDARY SCHOOL

SHEET TITLE:

DOMESTIC WATER PLANS

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE:  As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

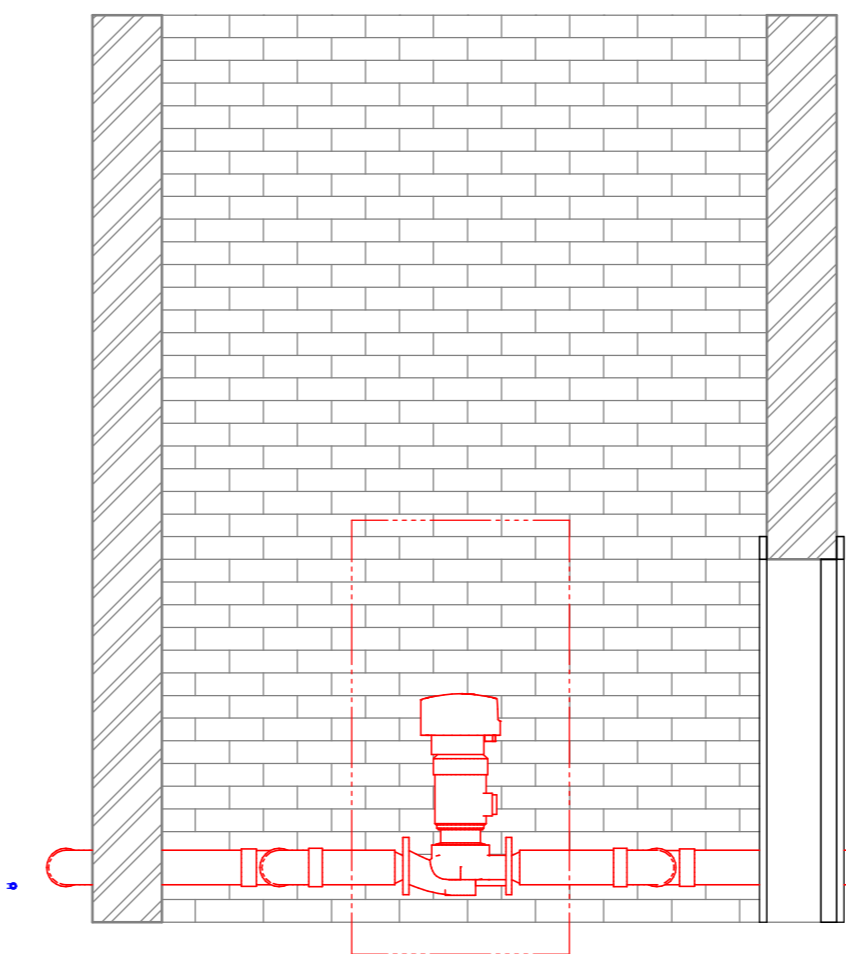
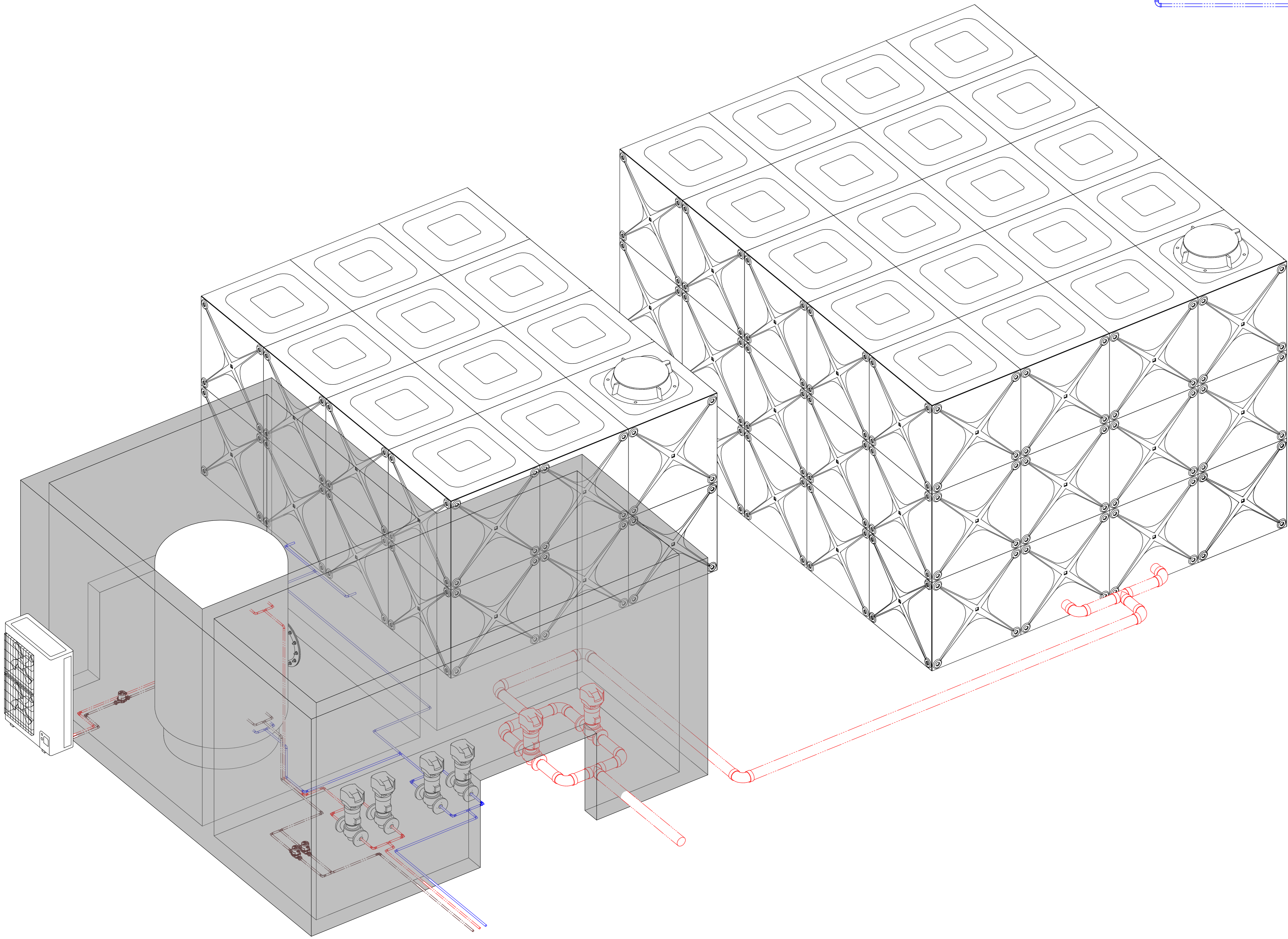
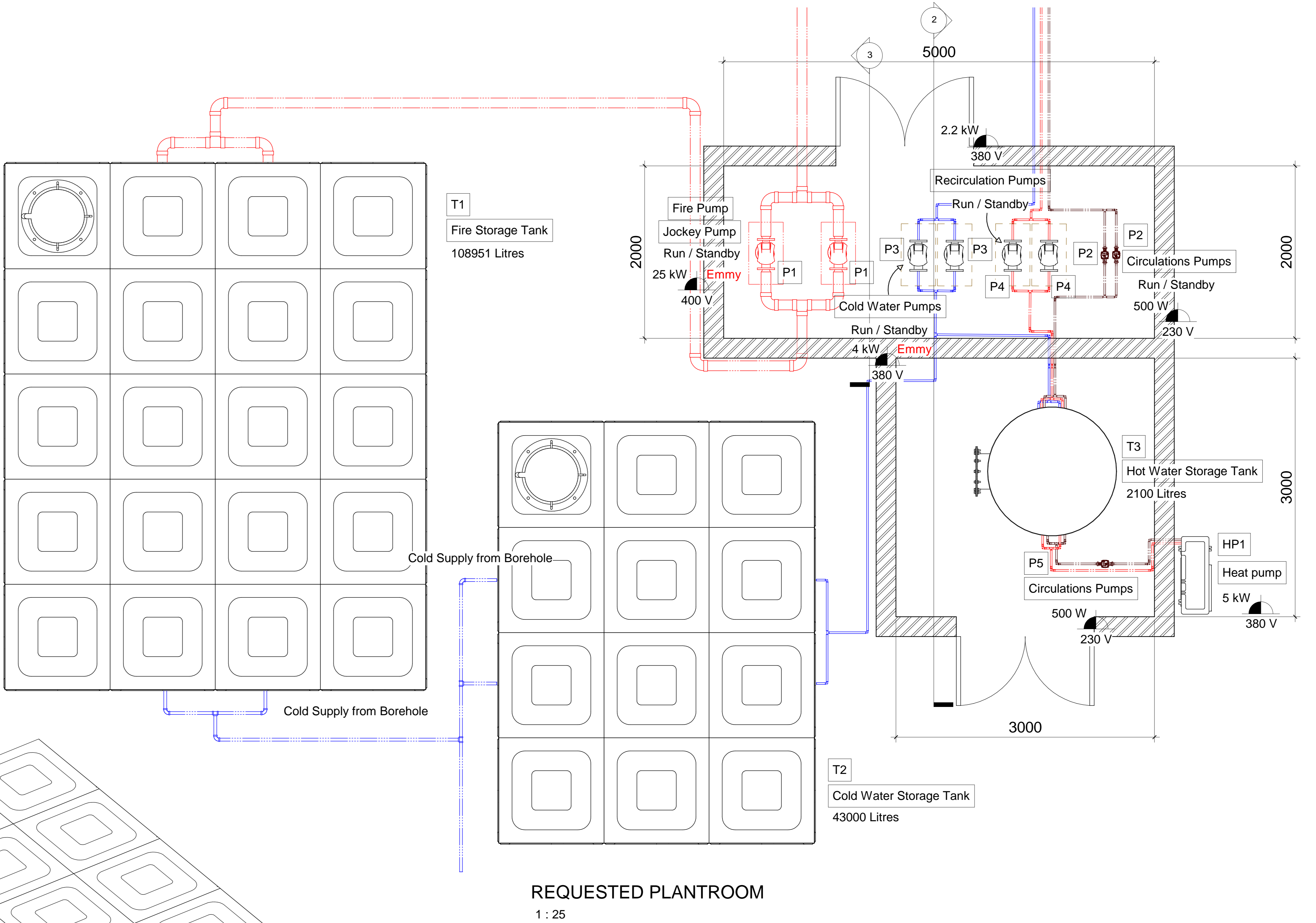
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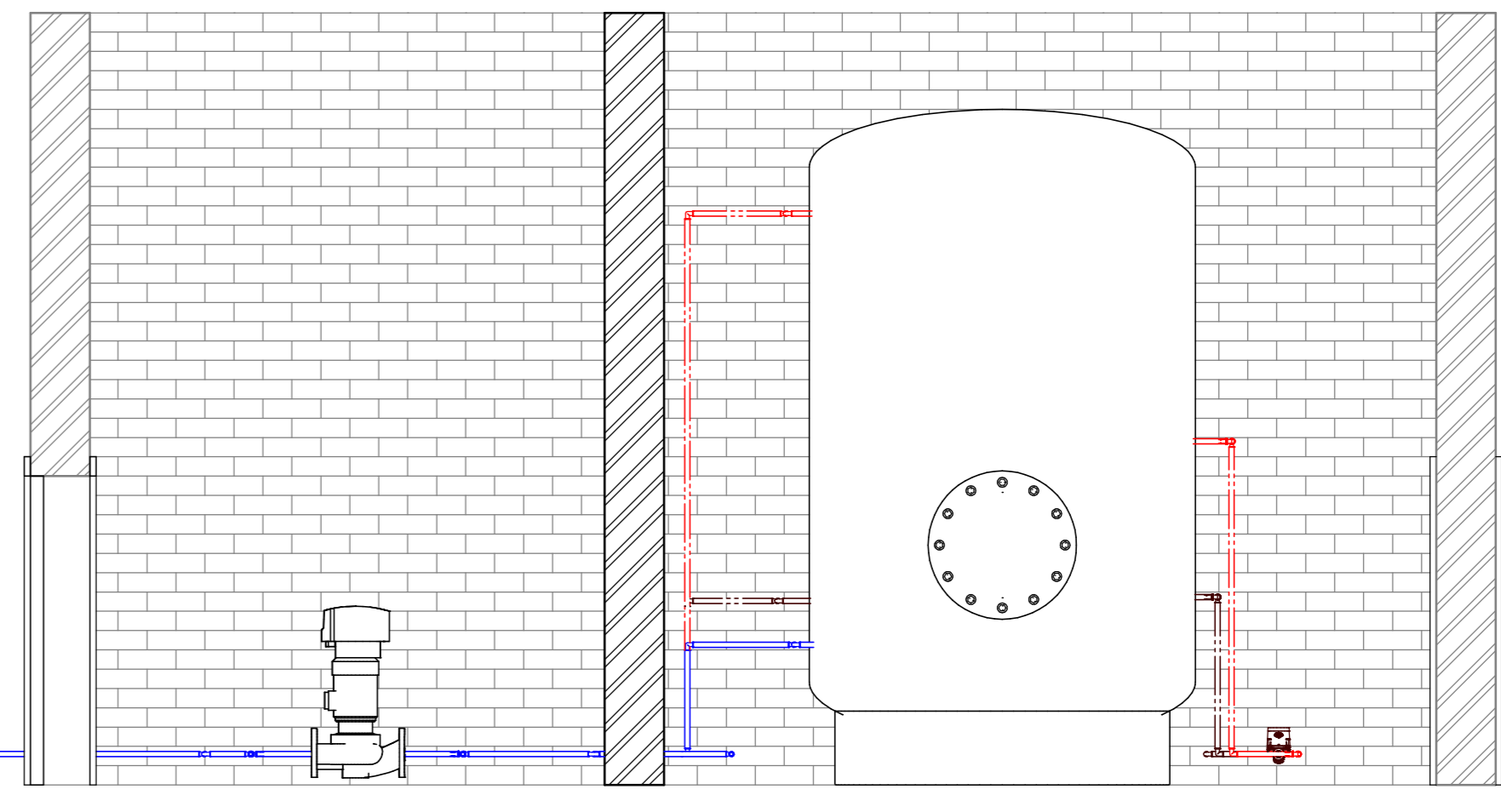
PRELIMINARY	
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FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

Domestic Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
T2	Cold water tank	43000L TANK	Supply and installed by contractor	ABECO or other approved	1
T3	Hot water tank	2100L TANK	Supply and installed by contractor	AIRCO or other approved	1
HP1	Heat Pump	AKRS-200E/SN2-M	Supply and installed by contractor	AIRCO or other approved	1
P2	Recirculation Pump	UPS 25-60 180	Supply and installed by contractor	GRUNDFOS or other approved	2
P3	Cold water Pump	VP 10 - 4	Supply and installed by contractor	FTT or other approved	2
P4	Hot water Pump	HCB 22	Supply and installed by contractor	FTT or other approved	2
P5	Circulation Pump	UPS 32 - 100 N180	Supply and installed by contractor	GRUNDFOS or other approved	1

Fire Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
P1	Fire Pump	Hydro EN 50-200/219 S2JS ADL-U1	Supply and installed by contractor	GRUNDFOS or other approved	2
T1	Fire Tank	10800L TANK	Supply and installed by contractor	ABECO or other approved	1



FIRE PUMPS SECTION  
1 : 25



HOT WATER PLANT SECTION  
1 : 25

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FOR TENDER PURPOSES	
FOR CONSTRUCTION	

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LEGEND	
	WATER METER
	BALANCING VALVE
	ISOLATING VALVE
	MIXING VALVE
	PIPE CONNECTION
	PIPE RISER
	PIPE DROPPER
	HWS - HOT WATER SUPPLY
	HWR - HOT WATER RETURN
	CW - COLD WATER
	FW - FIRE WATER

NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES
FACILITY STAMP
FACILITY MANAGER
INFRASTRUCTURE MANAGER
GENERAL MANAGER

Stamped by Plans Approval Committee
Signature: _____ Date: _____
Approved as coordination services by Principal Agent
Signature: _____ Date: _____

CLIENT NAME:
Education and Sport Development Department of Education and Sport Development Department van Onderwys en Sportontwikkeling Lefapha la Thuto le Thiboboloko ya Molekane NORTH WEST PROVINCE

ARCHITECT DETAILS:
UKUZA CONSULTING (PTY) LTD

CONSULTANTS DETAILS:
Mechanical Engineers Dhlase Consulting Engineers 4 Rockdale Avenue Vereeniging Durban Tel: (031) 266-7861 Fax: 087605088 Email: dcn@dhlase.co.za
DIHLASE

MECHANICAL

PROJECT NAME:  
KGOSI SHOPE  
SECONDARY SCHOOL

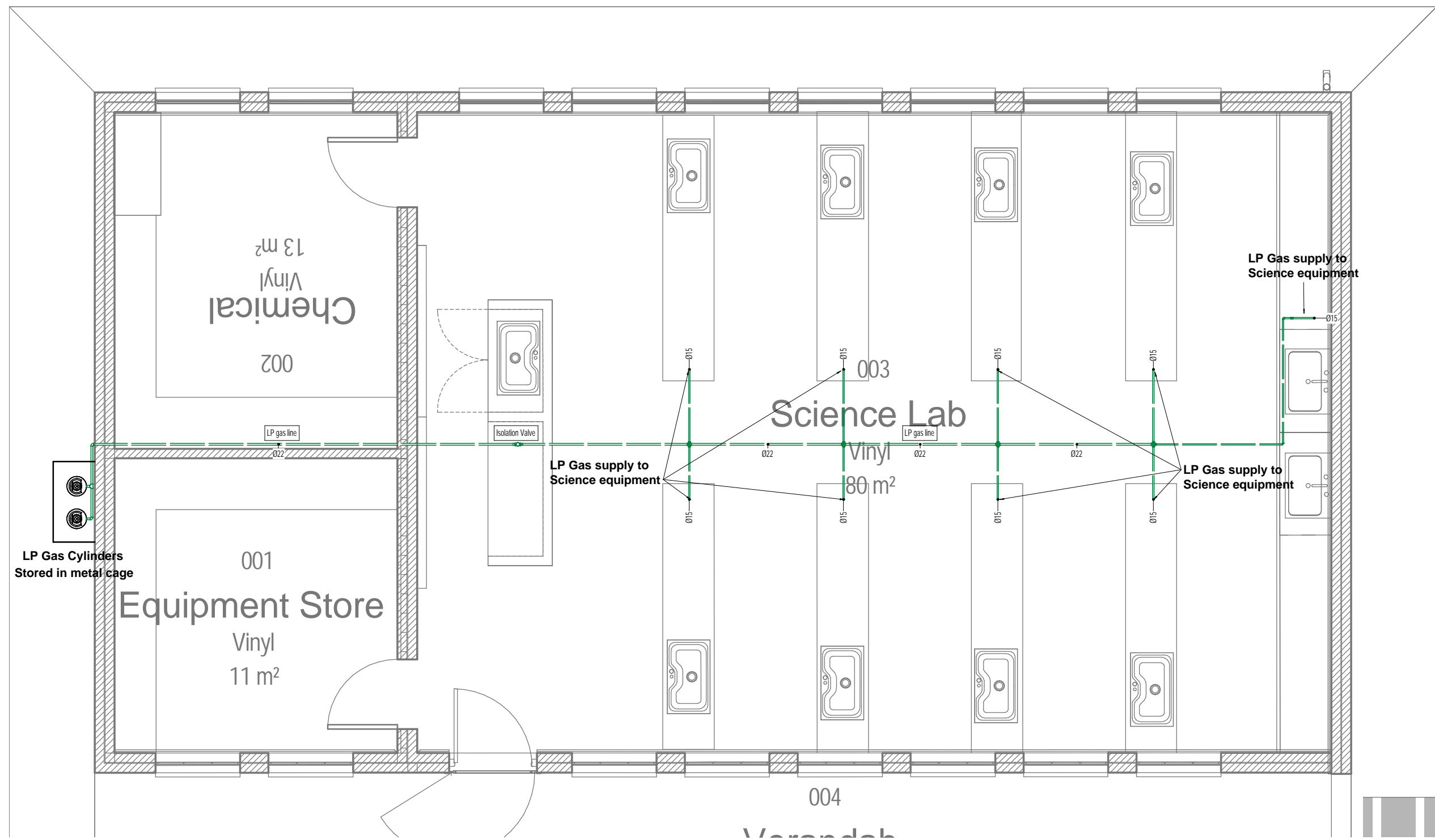
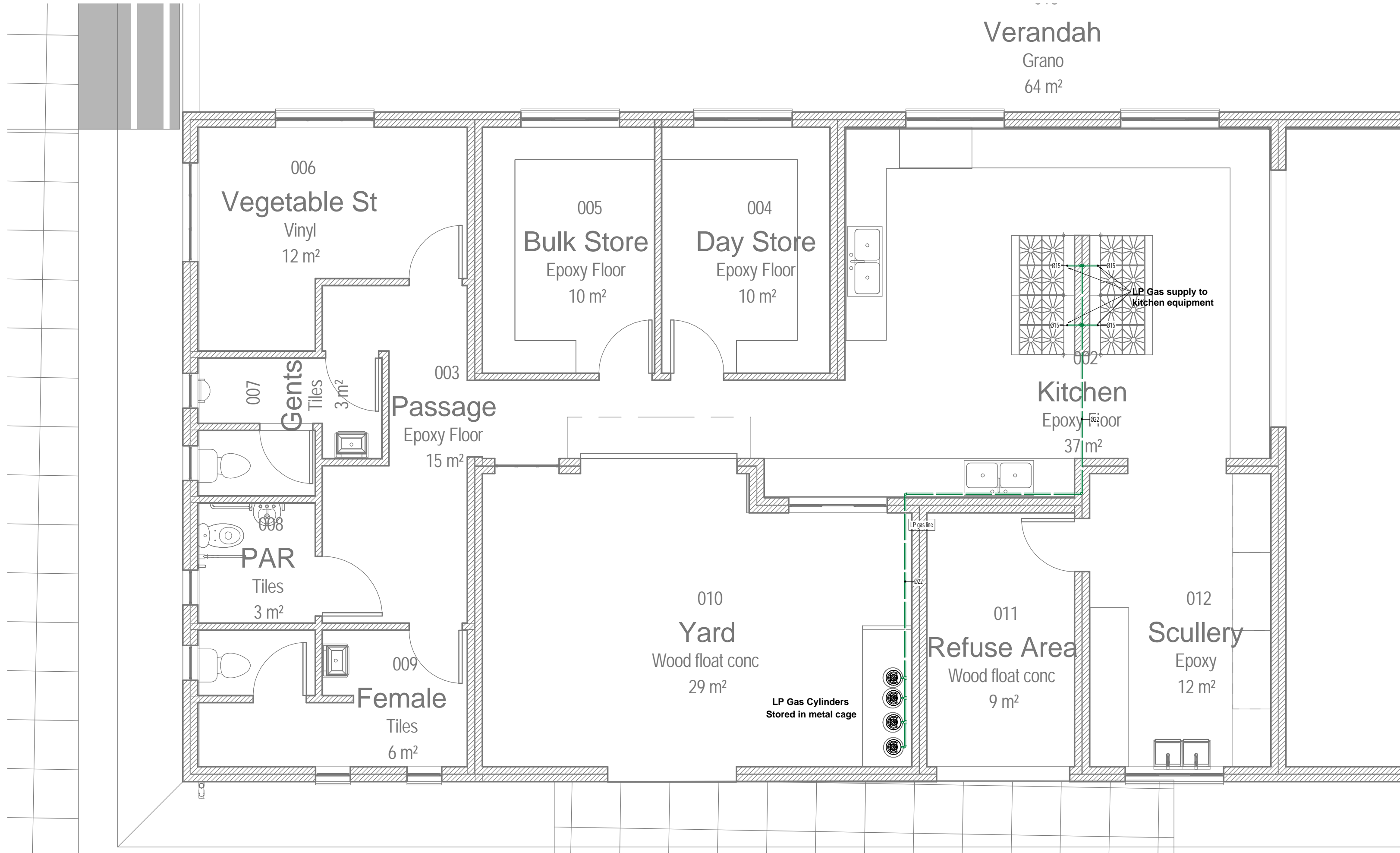
SHEET TITLE:  
PLANTROOM

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A0	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER: D3888-DW-A1-03	REV: 2
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GENERAL REQUIRMENTS FOR LPG INSTALLATIONS

1. **GENERAL NOTES**
- a) The installation must be installed in compliance with SANS 100400,10087:1.
  - b) One 9kg chemical Powder BC type fire extinguisher must be provided per installation.
  - c) SABS approved symbolic :
    - 1."No Smoking"
    - 2."No open fires"
    - 3."No unauthorised persons"
    - 4."No littering at cage"
- signs must be provided.
- d) Gas cage must be provided with locks for protection.
  - e) No cylinders are allowed to be store outside an approved LPG cage.
  - f) LPG signs to be displayed on front of the entrance of the property.
  - g) Should have adequate ventilation.
  - h) A test certificate must be provided by the installer.
  - i) All electric cables must be a minimum of 150mm from any gas pipes, except electric cables in appliances.
  - j) Any plugs 200mm away from any gas pipes.
  - k) No electrical plug or box may be below any hob.
  - l) Gas piping shall not be used as an earth for electrical circuits.
  - m) All buried steel pipes must be corrosion protected in an approved manner.
  - n) Schedule 40 steel pipes and wrought steel fittings comply with SANS 62-1 to be used.
  - o) All underground pipes must be placed a minimum of 50mm below the top of the concrete.
  - p) Pipes that are to be embedded in concrete must be tested before the completion of floor.
  - q) Pipe lines to be tested prior to completions of installations.
  - r) However, kitchens must be adequately ventilated by the use of at least one airbrick in an external wall.
  - s) A test certificate must be provided before any product is supplied.
  - t) Gas supply line must be tamper proof.
  - u) The user must ensure that appliances, components of a system be inspected at regular intervals not exceeding 5 years.
  - v) All hoses used on outdoor installations must be replaced after 5 years.

2. **THE LOCAL FIRE DEPARTMENT MUST BE INFORMED AT LEAST TWO (2) WORKING DAYS IN ANDVANCE BEFORE WORK ON THE INSTALLATION.**

3. **GENERAL**
- Application for a certificate of registrations must be applied for at the fire department, on completion of the installation before any product (LPG) is supplied

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CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER



CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za

MECHANICAL BUILDERSWORK

PROJECT NAME:

KGOSI SHOPE  
SECONDARY SCHOOL

SHEET TITLE:

KITCHEN AND SCIENCE LP GAS  
PLAN

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: 1 : 50	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER:

D3888-FW-A1-02

REV:  
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FOR TENDER PURPOSES	
FOR CONSTRUCTION	



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FACILITY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Stamped by Plans Approval Committee

Signature: Date:

Approved as coordination services by Principal Agent

Signature: Date:

CLIENT NAME:  
**Education and Sport Development**  
Department of Education and Sport Development  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Thibedi le Mefahamako  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:  
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CONSULTANTS DETAILS:  
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Dihlase Consulting Engineers  
4 Rockdale Avenue  
Wynville  
Durban  
Tel: 031 266 7861  
Fax: 0867605068  
Email: dcn@dihlase.co.za

**DIHLASE**

MECHANICAL

PROJECT NAME:  
**KGOSI SHOPE  
SECONDARY SCHOOL**

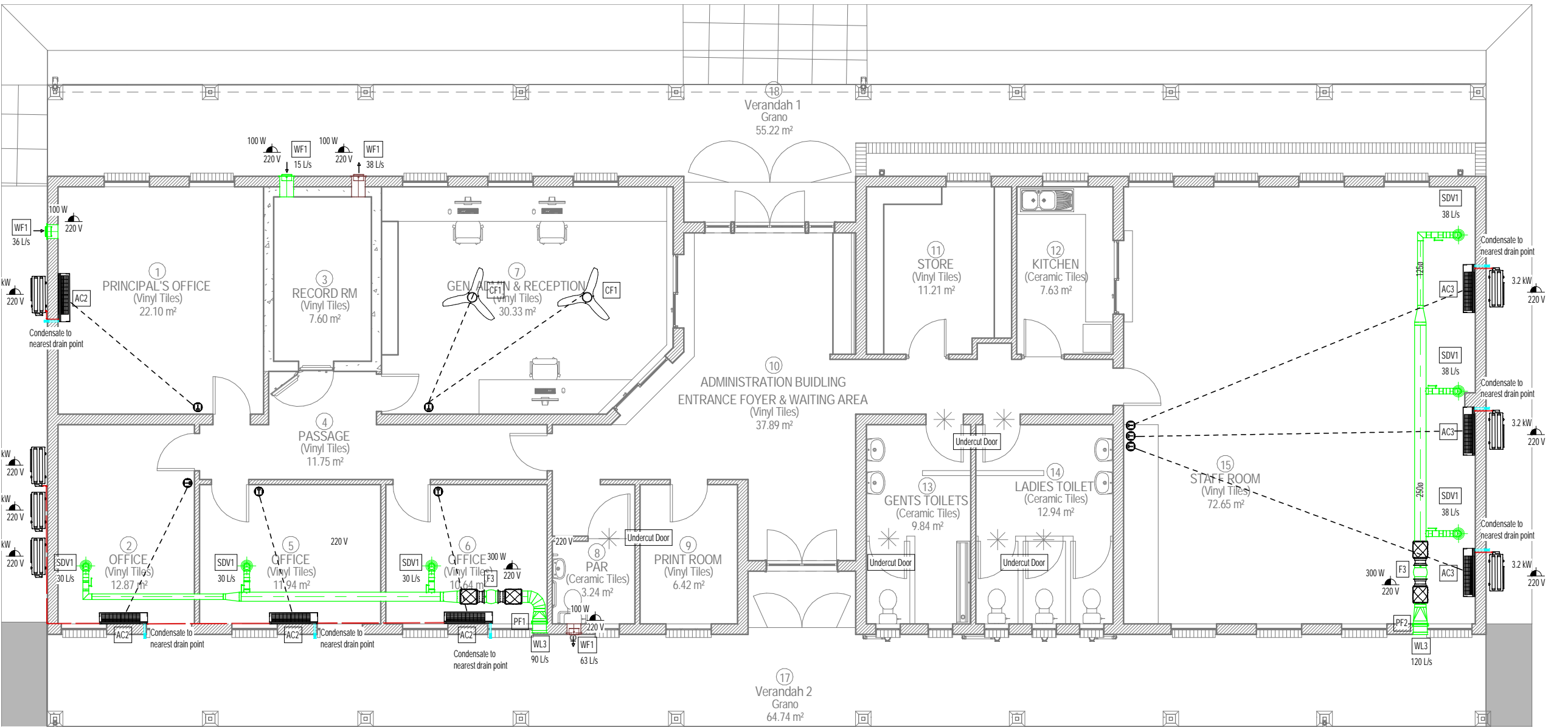
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**OVERALL HVAC PLAN**

DATE: 2022/03/08	REF NO: D3888
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SCALE: 1 : 200	DRAWN BY: JM NUGENT
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DRAWING NUMBERS: <b>D3888-ML-A1-00</b>	REV: <b>2</b>
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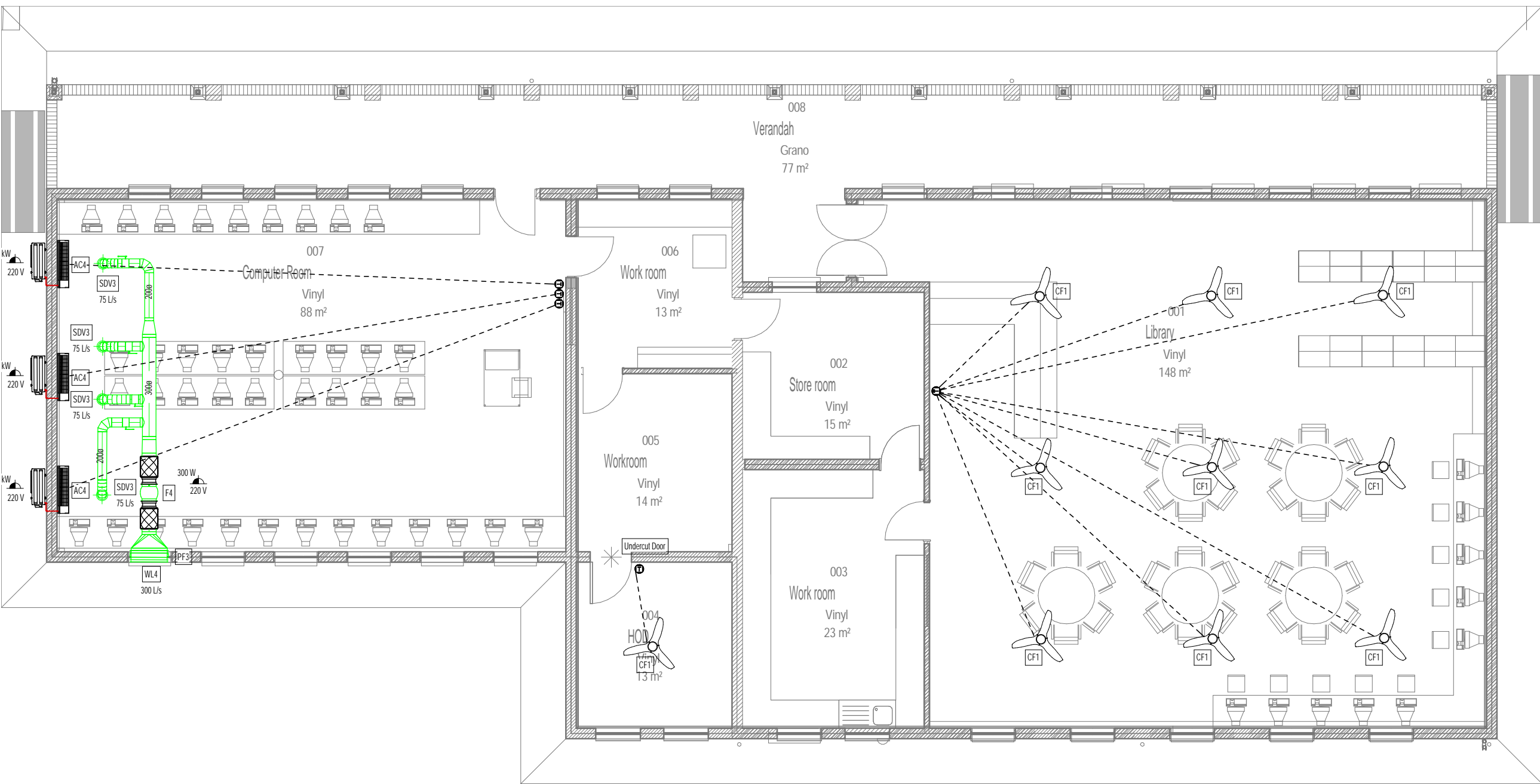
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FOR APPROVAL	✓
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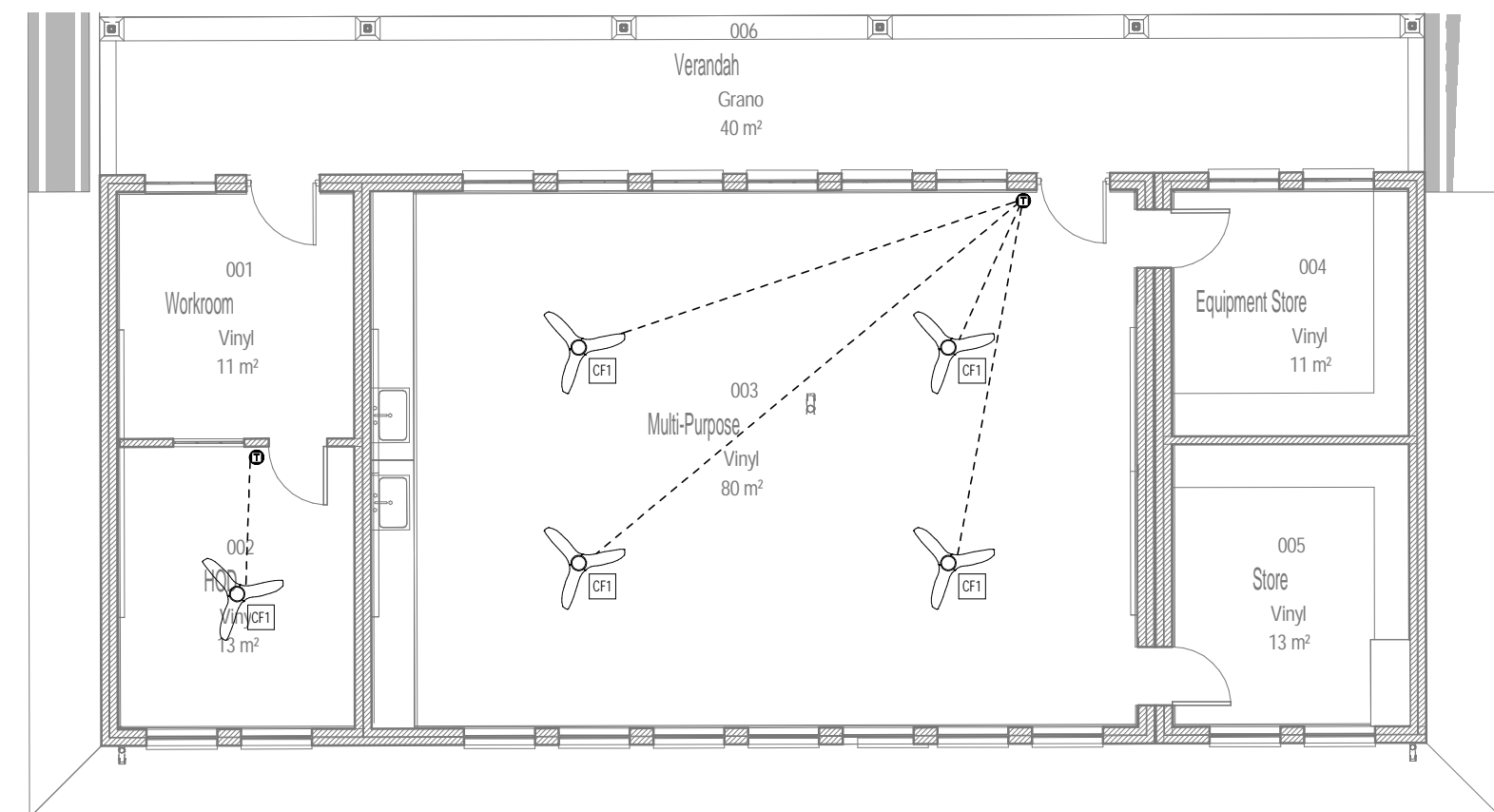


01-ADMIN BLOCK (HVAC)  
1 : 100

ADMIN BLOCK Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
SDV1	Disc Valve	Z-LVS 125	Supply and installed by contractor	TROX or other approved	Ø125	6
WF1	Wall Fan	VARIO-150/6/ARI LLS	Supply and installed by contractor	DONKIN or other approved	Ø150	4
F3	Inline Fan	250 VO	Supply and installed by contractor	DONKIN or other approved	Ø250	2
AC2	Midwall	Y5HUZHO18BAM-AFY	Supply and installed by contractor	YORK or other approved		5
AC3	Midwall	Y5HUZHO24BAM-AFY	Supply and installed by contractor	YORK or other approved		3
WL3	Louvre	AWG	Supply and installed by contractor	TROX or other approved	300 x 300	2
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved		2



01-COMP & LIBRARY (HVAC)  
1 : 100



01-MCP (HVAC)  
1 : 100

MCP Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved		5

HVAC NOTES:

- All flexible ducting shall be of the insulated fire rated type
- Flexible ducting shall not exceed 1500mm in length
- All filters shall be of the washable permanent type
- All duct sizes indicated are internal free air space dimensions
- All external ducting shall be 50mm externally insulated cladged and weatherproofed
- All ducting shall have Mez flanges
- All condensate drain piping to be sized according to manufacturers' specification
- All condensate drain piping shall be copper piping
- All condensate drain piping shall fall to drain point at an even fall of no less than 1%
- All condensate drain piping on the facade shall be as per detail shown
- Thermostat Controller wiring shall be mounted in Ø20mm uPVC Conduit System - Built/Chased into Walls.
- All air conditioning units on ceiling and diffusers to be centered with ceiling tiles
- All air conditioning ducting to be externally insulated
- Extract grille to be installed above horizontal bedhead trunking
- Bulkhead around exposed extract ducting to be to architects detail
- Whilst the drawings may refer to specific items, brands or equipment. All equipment offered to be as specified or equal or approved

COMP & LIBRARY Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
SDV3	Disc Valve	Z-LVS 200	Supply and installed by contractor	TROX or other approved	Ø200	4
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved		10
F4	Inline Fan	315 VO	Supply and installed by contractor	DONKIN or other approved	Ø315	1
AC4	Midwall	Y5HUZHO30BAM-AFY	Supply and installed by contractor	YORK or other approved		3
WL4	Louvre	AWG	Supply and installed by contractor	TROX or other approved	800 x 300	1

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

**NOTES:**

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- DRAWINGS ARE NOT TO BE SCALED. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY
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300 TO 600	350	555	750
601 TO 900	300	450	550
901 TO 1200	250	300	450
1201 TO 2400	300	550	950

NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

CLIENT NAME:

**Education and Sport Development**  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Tlhabololo ya Mafrahameko  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:

**UKUZA CONSULTING** (PTY) LTD

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za

**DIHLASE**

MECHANICAL

PROJECT NAME:

**KGOSI SHOPE SECONDARY SCHOOL**

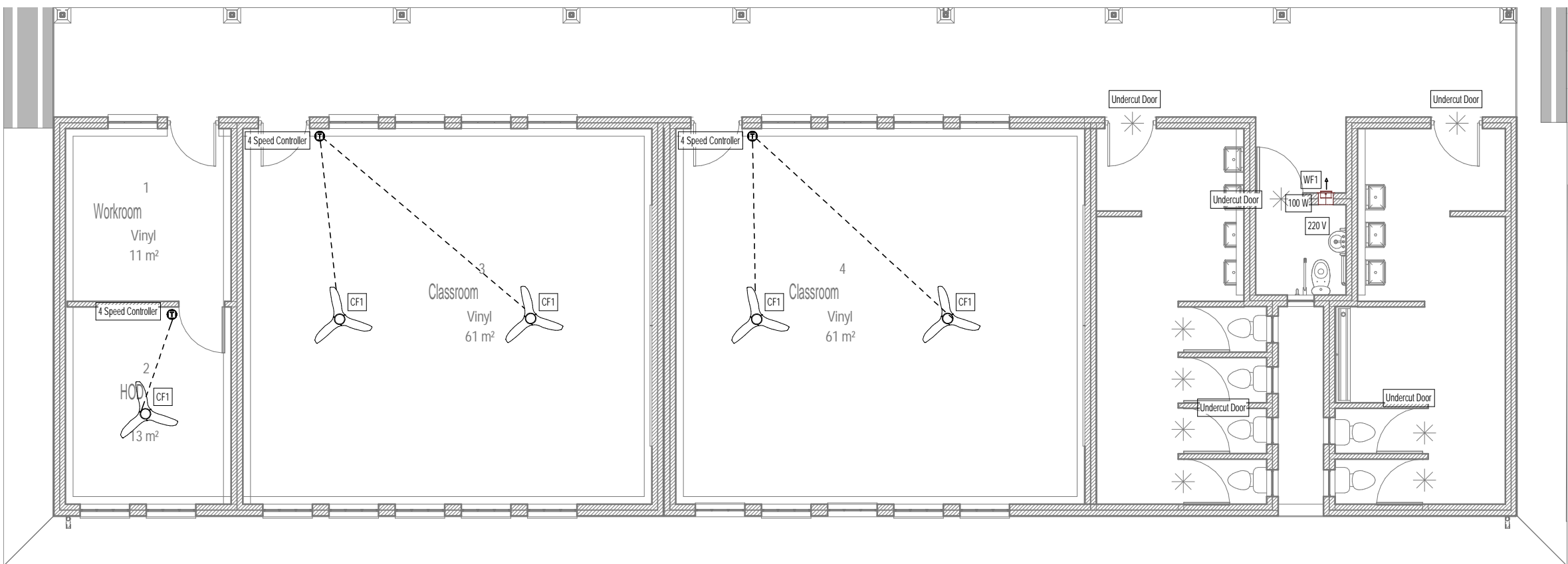
SHEET TITLE:

**HVAC PLANS part 1**

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER: <b>D3888-ML-A1-01</b>	REV: <b>2</b>
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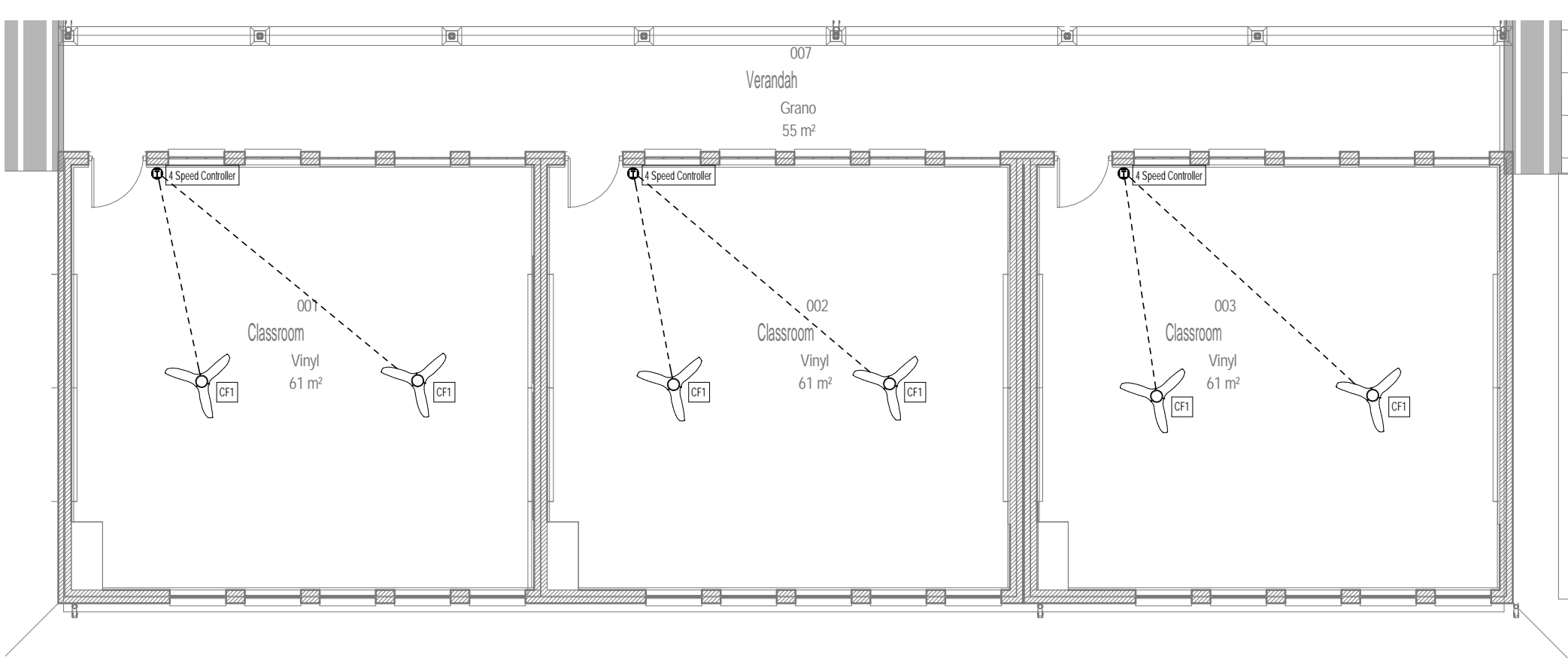
Stamped by Plans Approval Committee



01-CL2, ABU & HOD (HVAC)

1 : 100

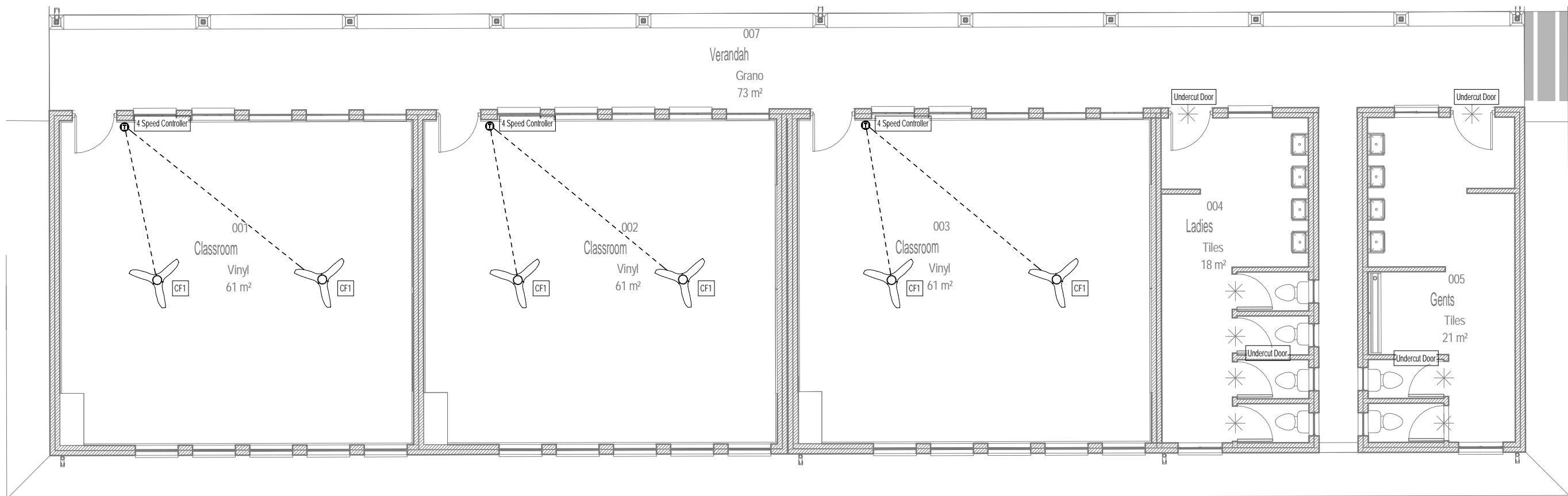
CL2, ABU & HOD Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved		4
WF1	Wall Fan	VARIO-150/6/ARI LLS	Supply and installed by contractor	DONKIN or other approved	Ø150	1



01-CL3 (HVAC)

1 : 100

CL3 Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved	6



01-CL3 ABU (HVAC)

1 : 100

CL3 ABU Equipment Schedule						
Tag	Name	Model	Discription	Manufacturer	Size	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved		6


HVAC NOTES:

- All flexible ducting shall be of the insulated fire rated type
- Flexible ducting shall not exceed 1500mm in length
- All filters shall be of the washable permanent type
- All duct sizes indicated are internal free air space dimensions
- All external ducting shall be 50mm externally insulated claddded and weatherproofed
- All ducting shall have Mez flanges
- All condensate drain piping to be sized according to manufacturers' specification
- All condensate drain piping shall be copper piping
- All condensate drain piping shall fall to drain point at an even fall of no less than 1%
- All condensate drain piping on the facade shall be as per detail shown
- Thermostat Controller wiring shall be mounted in Ø20mm uPVC Conduit System - Built/Chased into Walls.
- All air conditioning units on ceiling and diffusers to be centered with ceiling tiles
- All air conditioning ducting to be externally insulated
- Extract grille to be installed above horizontal bedhead trunking
- Bulkhead around exposed extract ducting to be to architects detail
- Whilst the drawings may refer to specific items, brands or equipment. All equipment offered to be as specified or equal or approved

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

NOTES:

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	<table><tr><td>300 TO 600</td><td>350</td><td>555</td><td>750</td></tr><tr><td>601 TO 900</td><td>300</td><td>450</td><td>950</td></tr><tr><td>901 TO 1200</td><td>250</td><td>450</td><td>950</td></tr><tr><td>1201 TO 2400</td><td>300</td><td>450</td><td>950</td></tr></table>	300 TO 600	350	555	750	601 TO 900	300	450	950	901 TO 1200	250	450	950	1201 TO 2400	300	450	950			
300 TO 600	350	555	750																	
601 TO 900	300	450	950																	
901 TO 1200	250	450	950																	
1201 TO 2400	300	450	950																	
SUPPLY AIR ONLY	DUCT WIDTH (W) IN MM	R1	R2	R3																
		SPLITTER RADII																		
DUCT SPLITTERS																				

NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

CLIENT NAME:

**Education and Sport Development**  
Department of Education and Sport Development  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Tlhabololo ya Mafhamako  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:

**UKUZA CONSULTING (PTY) LTD.**

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za

**DIHLASE**

MECHANICAL

PROJECT NAME:

**KGOSI SHOPE SECONDARY SCHOOL**

SHEET TITLE:

**HVAC PLANS part 2**

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

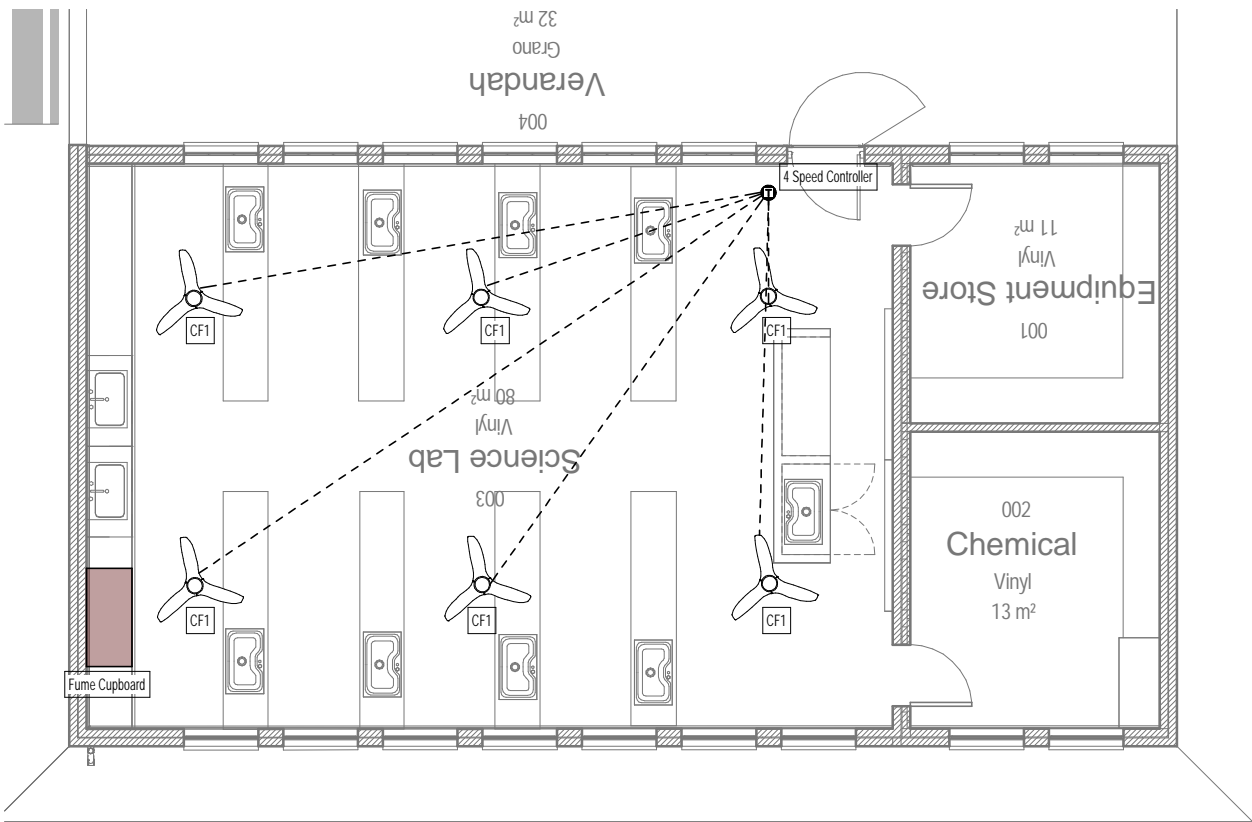
DRAWING NUMBER: **D3888-ML-A1-02**

REV: **2**

Stamped by Plans Approval Committee

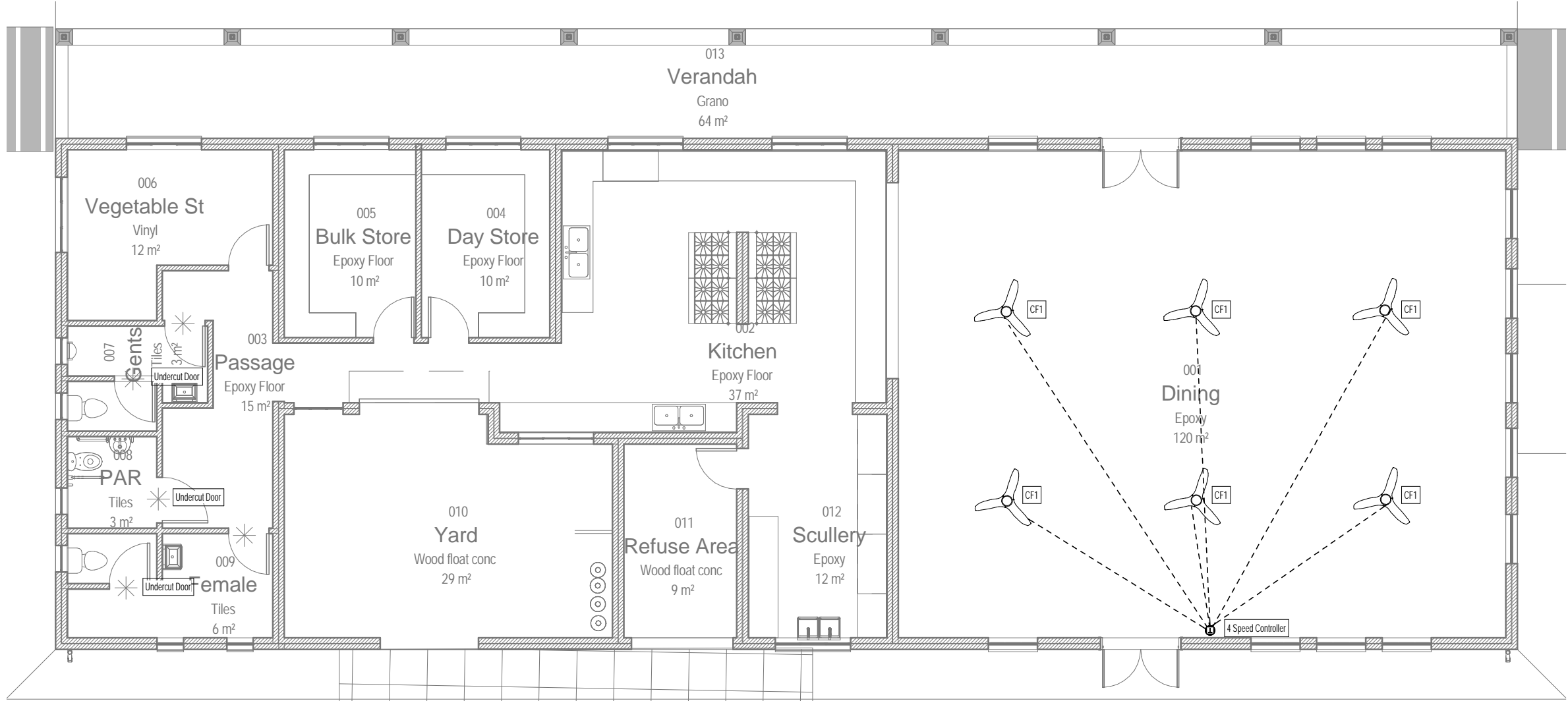
HVAC NOTES:

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2. Flexible ducting shall not exceed 1500mm in length
3. All filters shall be of the washable permanent type
4. All duct sizes indicated are internal free air space dimensions
5. All external ducting shall be 50mm externally insulated cladded and weatherproofed
6. All ducting shall have Mez flanges
7. All condensate drain piping to be sized according to manufacturers' specification
8. All condensate drain piping shall be copper piping
9. All condensate drain piping shall fall to drain point at an even fall of no less than 1%
10. All condensate drain piping on the facade shall be as per detail shown
11. Thermostat Controller wiring shall be mounted in Ø20mm uPVC Conduit System - Built/Chased into Walls.
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13. All air conditioning ducting to be externally insulated
14. Extract grille to be installed above horizontal bedhead trunking
15. Bulkhead around exposed extract ducting to be to architects detail
16. Whilst the drawings may refer to specific items, brands or equipment. All equipment offered to be as specified or equal or approved



01-SCIENCE LAB (HVAC)

1 : 100

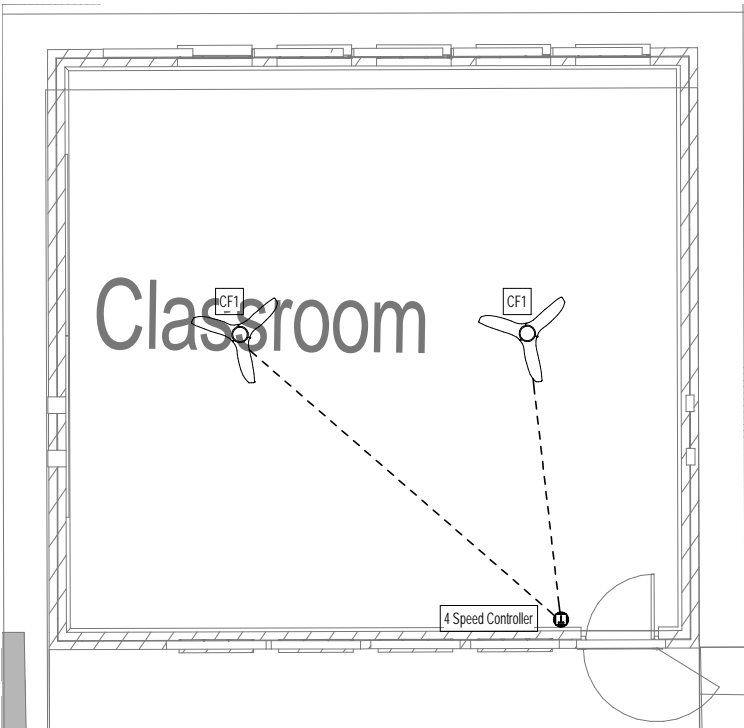


01-KITCHEN & DINNING (HVAC)

1 : 100

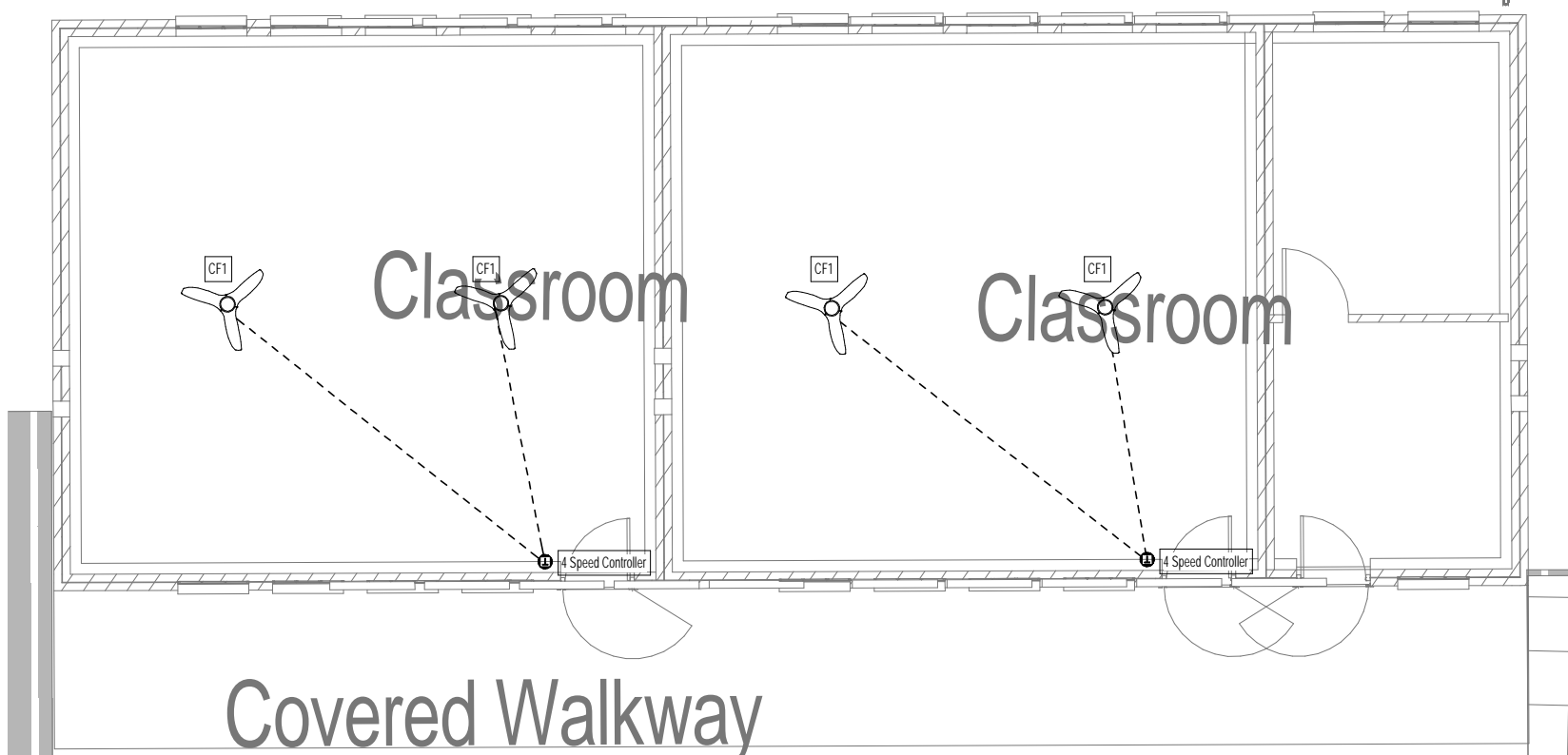
SCIENCE LAB Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved	6

KITCHEN & DINNING Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved	6



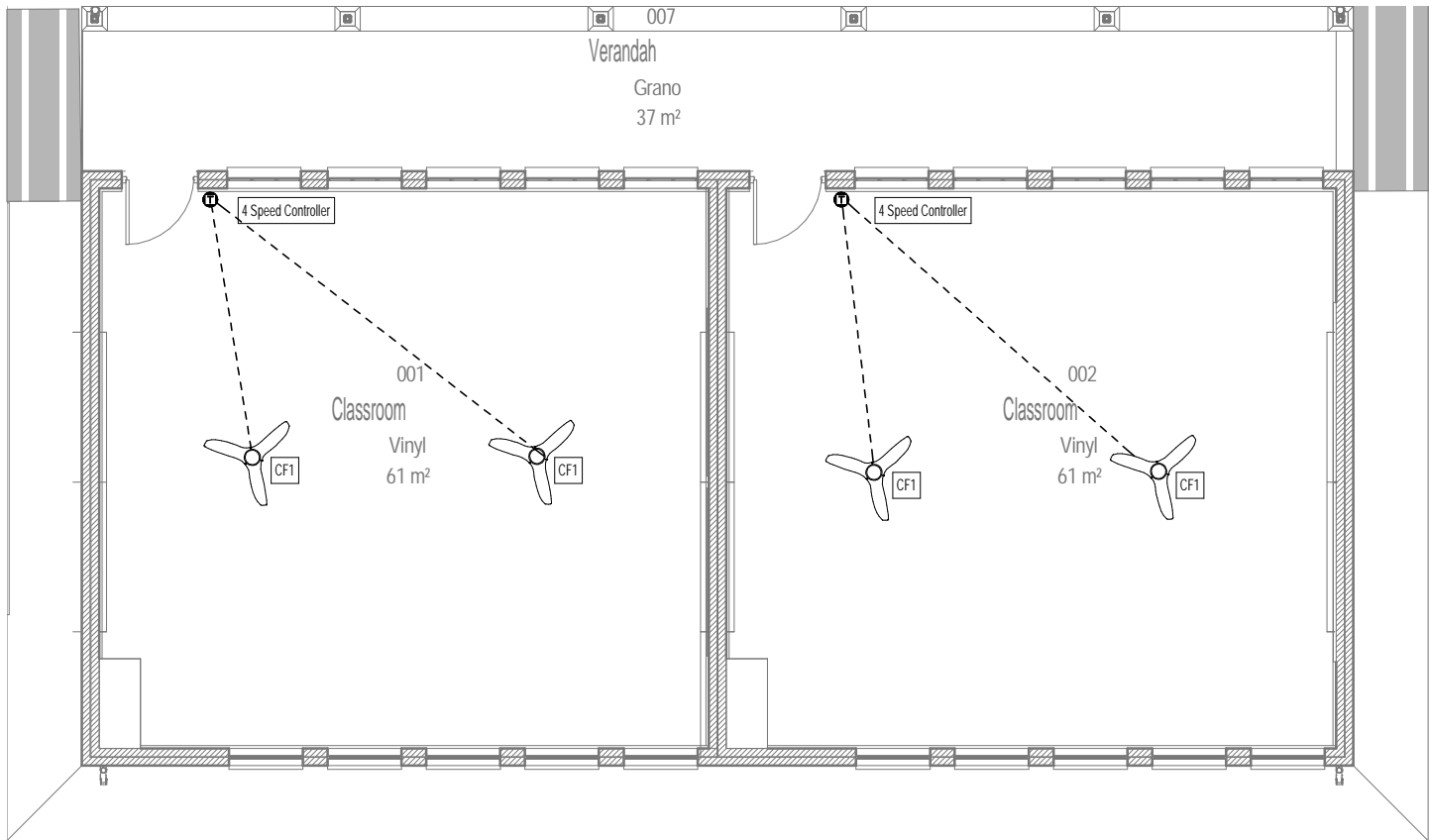
01-EX CL1 (HVAC)

1 : 100



01-EX CL2 (HVAC)

1 : 100



01-CL2 (HVAC)

1 : 100

EX CL1 & CL2 Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved	6

CL2 Equipment Schedule					
Tag	Name	Model	Discription	Manufacturer	Qty
CF1	Ceiling Fan	LCF 56	Supply and installed by contractor	LUFT or other approved	4

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

NOTES:

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NO	DATE	DESCRIPTION	DRN BY

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER

CLIENT NAME:



ARCHITECT DETAILS:



CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za



MECHANICAL

PROJECT NAME:

KGOSI SHOPE  
SECONDARY SCHOOL

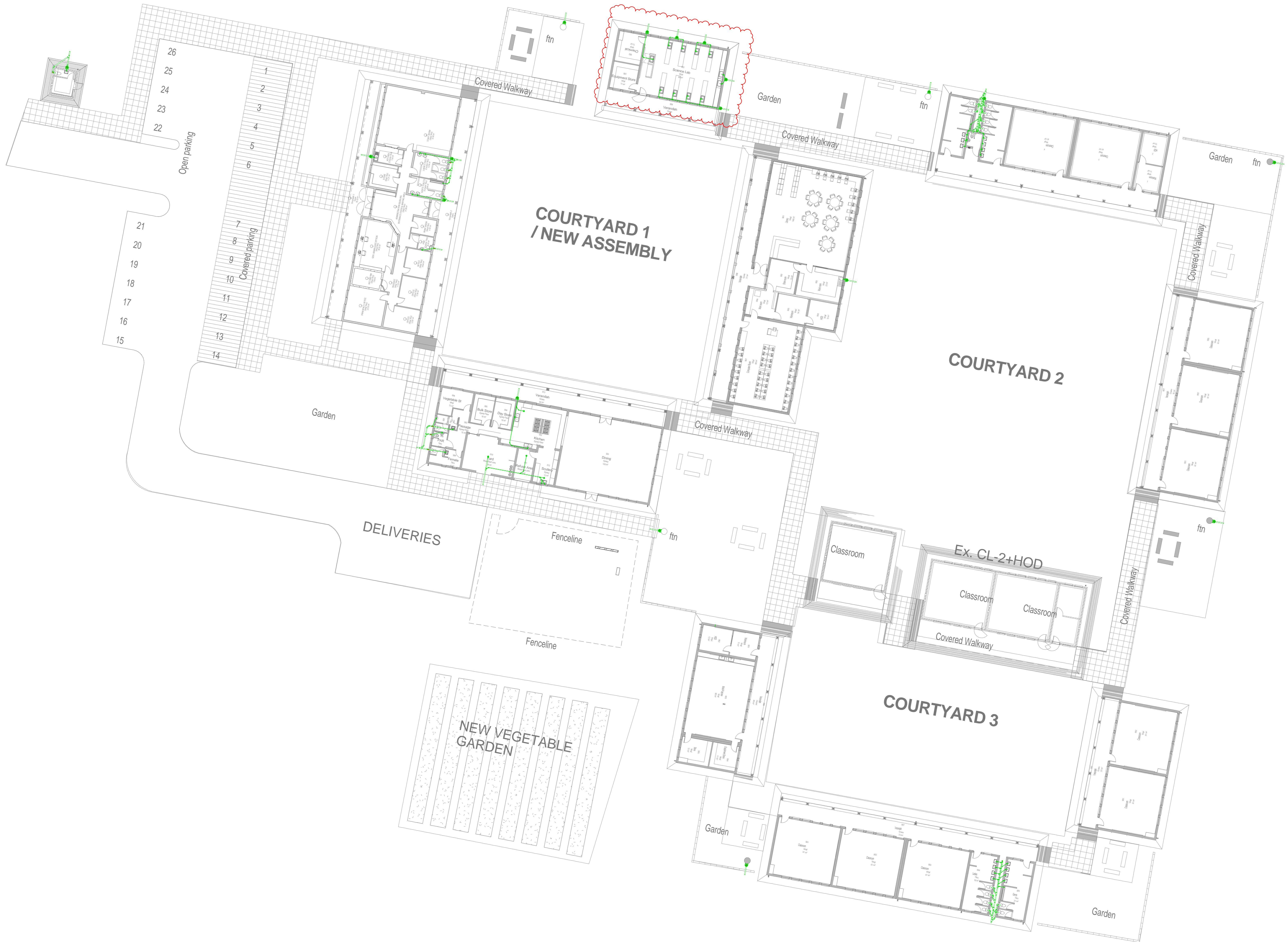
SHEET TITLE:

HVAC PLANS part 3

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER: D3888-ML-A1-03	REV:
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LEGEND	
650 mm - uPVC Class 16 Waste Pipe	
6110 mm - uPVC Class 16 Waste Pipe	
6110 mm - uPVC Class 24 Waste Pipe	
650 mm - uPVC Class 16 Rain Pipe	
675 mm - uPVC Class 16 Rain Pipe	
6110 mm - uPVC Class 16 Rain Pipe	

NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES
FACILITY STAMP
FACILITY MANAGER
INFRASTRUCTURE MANAGER
GENERAL MANAGER

Stamped by Plans Approval Committee
Signature: _____ Date: _____
Approved as coordination services by Principal Agent
Signature: _____ Date: _____

CLIENT NAME:
 <b>Education and Sport Development</b> Department of Education and Sport Development Departement van Onderwys en Sportontwikkeling Lefapha la Thuto le Thibedi le ya Molekane <b>NORTH WEST PROVINCE</b>

ARCHITECT DETAILS:
 <b>UKUZA CONSULTING</b> (PTY) LTD

CONSULTANTS DETAILS:
Mechanical Engineers Dhlase Consulting Engineers 4 Rockdale Avenue Wynville Durban Tel: 031 266 7861 Fax: 0867605068 Email: dcn@dhlase.co.za
 <b>DIHLASE</b>

MECHANICAL

PROJECT NAME:
<b>KGOSI SHOPE SECONDARY SCHOOL</b>

SHEET TITLE:
<b>OVERALL DRAINAGE PLAN</b>

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A0	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER: <b>D3888-SW-A1-00</b>	REV: <b>2</b>
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FOR APPROVAL	✓
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FOR CONSTRUCTION	



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- PIPE RUNS ARE DIAGRAMMATICALLY INDICATED ON THE DRAWINGS. THEIR EXACT POSITION SHOULD BE ESTABLISHED ON SITE.
- MAJOR RE-POSITIONING OF PIPE-WORK MAY AFFECT THE CRITERIA ON WHICH THE CALCULATIONS ARE BASED AND SHOULD thus BE PRE-CHECKED BY THE ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.
- FINAL SANITARY FIXTURE POSITIONS AND SETTING OUT TO BE COORDINATED WITH THE ARCHITECTS PLAN. APPROVALS FOR SETTING OUT NEED TO BE OBTAINED FROM THE ARCHITECT.
- ALL PIPE RUNS SHOULD BE FLUSHED, FASTENED AND PRESSURE TESTED, PRIOR TO THE APPLICATION OF ANY TERMINAL FITTINGS.
- ANY PIPE CAST INTO SLABS MUST BE SLEEVED USING TUBE OF SUITABLE SIZE.
- ALL UNDERGROUND PIPE WORK TO BE HDPE, ALL EXPOSED PIPEWORK TO BE HDPE
- DESIGNS BASED ON FITTINGS SPECIFIED. ANY CHANGES IN SPECIFICATION OF FITTINGS WILL DEEM THIS INSTALLATION INVALID. IF SPECIFICATION OF FITTING IS CHANGED AT ANY TIME, THE DESIGNER SHOULD BE CONSULTED REGARDING THE CHANGES.
- ALL WASH HAND BASINS TO HAVE BOTTLE TRAPS
- ALL SINKS TO HAVE P-TRAPS
- ALL SHOWERS TO BE COMPLETE WITH TRAPS
- ALL FLOOR DRAINS TO BE COMPLETE WITH TRAPS
- ALL FITTINGS TO THE INTO GULLY, VENTED STACK OR VENT HORNS BEFORE TYING INTO EXTERNAL RETICULATION VIA MANHOLES
- ALL STACKS TO BE COMPLETE WITH 2 WAY VENT VALVES
- ALL FITTINGS TO BE VENTED UNLESS OTHERWISE STATED.

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	✓
FOR TENDER PURPOSES	
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[illegible]

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

## INFRASTRUCTURE MANAGER

GENERAL  
MANAGER

**CLIENT NAME:**



ARCHITECT DETAILS:



**UKUZA CONSULTING** (PTY) LTD

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: [dbn@dihlase.co.za](mailto:dbn@dihlase.co.za)



MECHANICAL

PROJECT NAME:

KGOSI SHOPE  
SECONDARY SCHOOL

**SHEET TITLE:**

## DRAINAGE PLANS

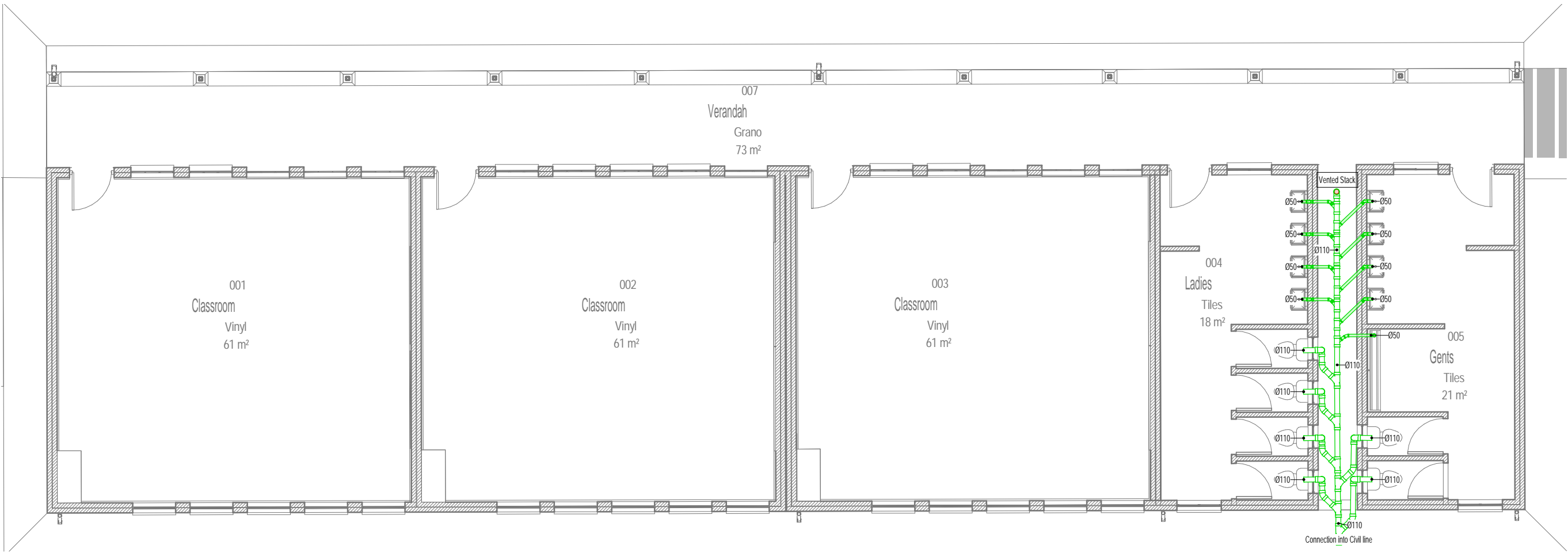
<b>DATE:</b> 2022/03/08	<b>REF NO:</b> D3888
<b>PAPER SIZE:</b> A1	<b>DESIGNED BY:</b> Z VORAGEE
<b>SCALE:</b>  As indicated	<b>DRAWN BY:</b> JM NUGENT  <b>CHECKED BY:</b> R ISMAIL

DRAWING NUMBER:  
D3888-SW-A1-01

2022/03/08 18:09:35

- FOR GENERAL NOTES REFER TO DRAWINGS.
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- ALL SINKS TO HAVE P-TRAPS
- ALL SHOWERS TO BE COMPLETE WITH TRAPS
- ALL FLOOR DRAINS TO BE COMPLETE WITH TRAPS
- ALL FITTINGS TO TIE INTO GULLY, VENTED STACK OR VENT HORN'S BEFORE TYING INTO EXTERNAL RETICULATION VIA MANHOLES
- ALL STACKS TO BE COMPLETE WITH 2-WAY VENT VALVES
- ALL FITTINGS TO BE VENTED UNLESS OTHERWISE STATED.

01-CL 2 ABU (SW)  
1 : 100



01-CL 3 ABU (SW)  
1 : 100

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	✓
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

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NO	DATE	DESCRIPTION	DRN BY
2	2022/03/08	REVISED TO ARCHITECTS PLAN	JMN

CLIENT DEPARTMENT SIGNATURES

FACILITY STAMP

FACILITY MANAGER

INFRASTRUCTURE  
MANAGER

GENERAL  
MANAGER

CLIENT NAME:



**Education and Sport Development**  
Department of Education and Sport Development  
Departement van Onderwys en Sportontwikkeling  
Lefapha la Thuto le Thibololo ya Matshameko  
**NORTH WEST PROVINCE**

ARCHITECT DETAILS:



**UKUZA CONSULTING** (PTY) LTD

CONSULTANTS DETAILS:

**Mechanical Engineers**  
Dihlase Consulting Engineers  
4 Rockdale Avenue  
Westville  
Durban  
Tel: (031) 266-7861  
Fax: 0867605088  
Email: dcn@dihlase.co.za



MECHANICAL

PROJECT NAME:  
**KGOSI SHOPE  
SECONDARY SCHOOL**

SHEET TITLE:  
**DRAINAGE PLANS**

DATE: 2022/03/08	REF NO: D3888
PAPER SIZE: A1	DESIGNED BY: Z VORAGEE
SCALE: As indicated	DRAWN BY: JM NUGENT
	CHECKED BY: R ISMAIL

DRAWING NUMBER: <b>D3888-SW-A1-02</b>	REV: <b>2</b>
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