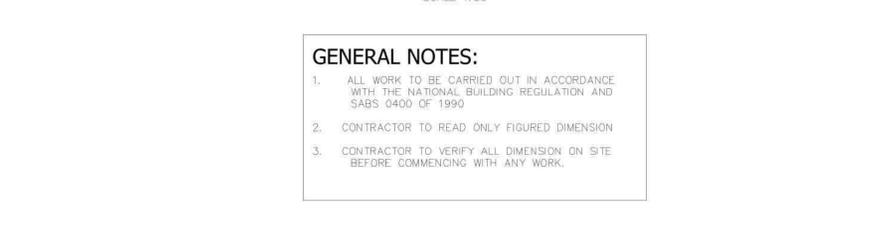
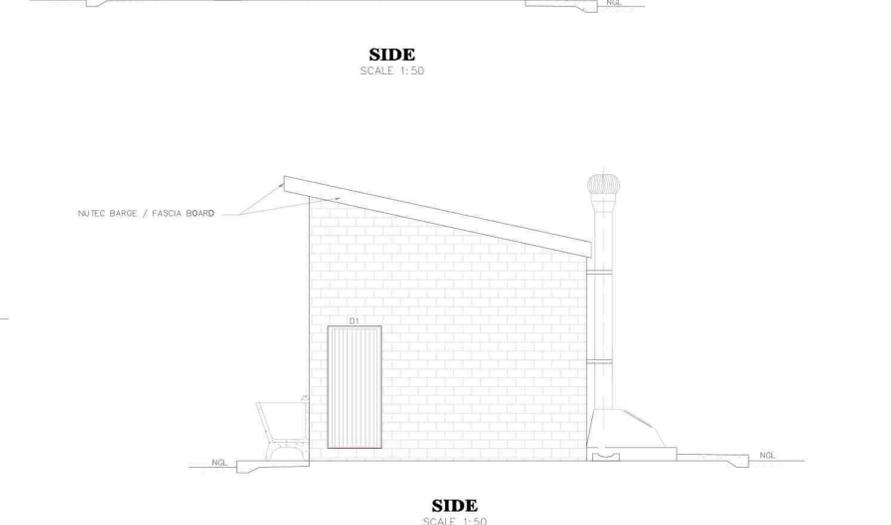
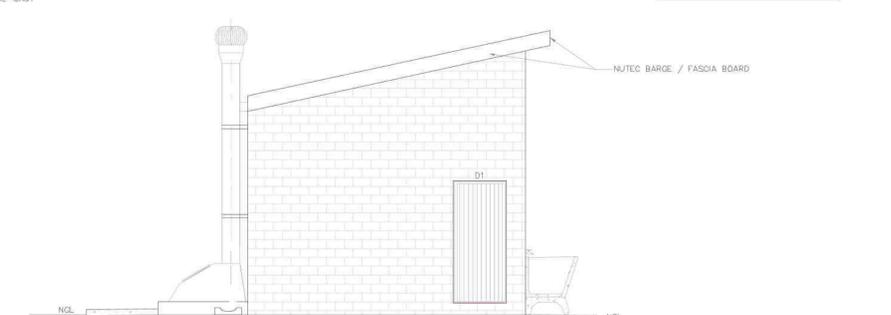
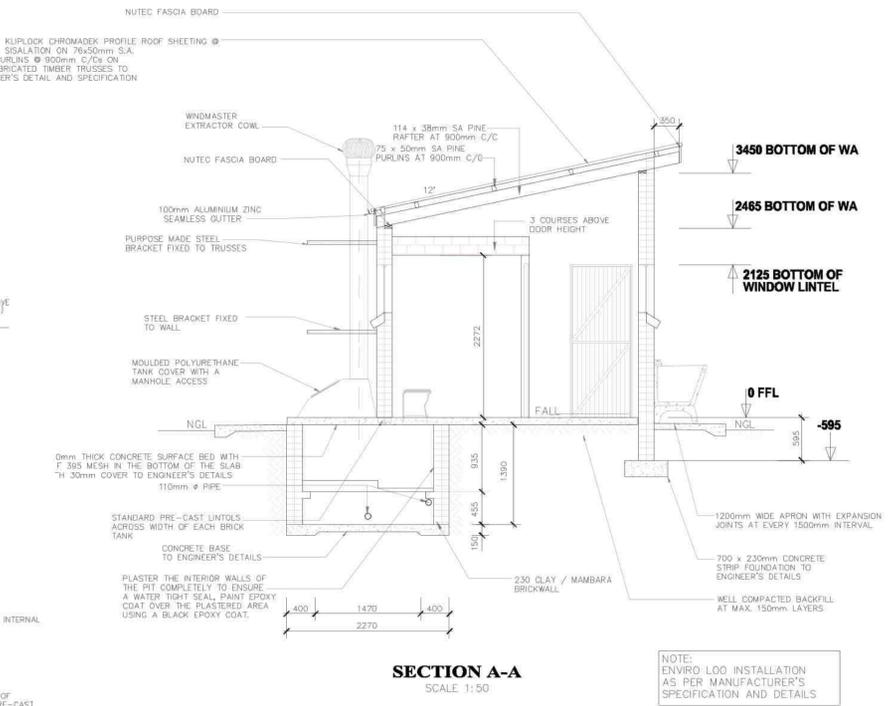
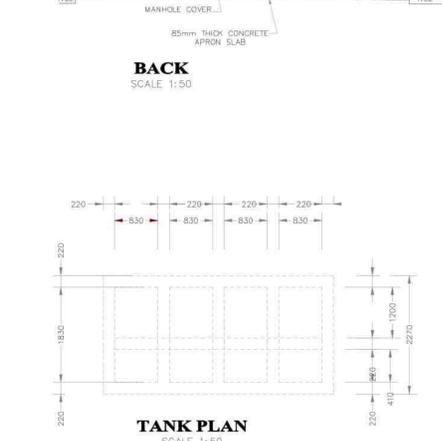
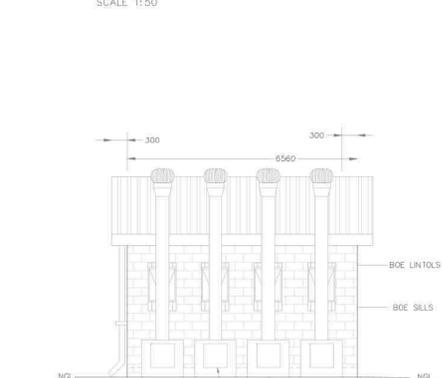
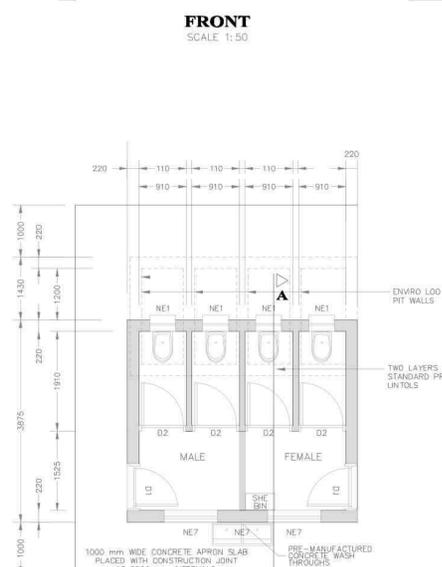
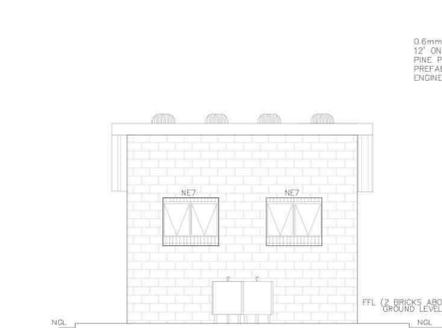


**GR4**



**WINDOW SCHEDULE**

WINDOW NO.	NE7
CATALOGUE	NE7
FRAME	1022 x 654mm HIGH STANDARD STEEL WINDOW FRAME
FRAME FINISH	SPOT PRINING DEFECTS IN PRE-PRIME SURFACE WITH ZINC CHROMATE PRIMER & APPLY ONE UNIVERSAL UNDER COAT & TWO COATS EPMP GOLDEN BROWN GLOSS ENAMEL PAINT ON STEEL
GLAZING	6.28mm OBSCURE SAFETY GLASS
NO. REQUIRED	3

**WINDOW SCHEDULE**

WINDOW NO.	NE1
CATALOGUE	NE1
FRAME	533 x 654mm HIGH STANDARD STEEL WINDOW FRAME
FRAME FINISH	SPOT PRINING DEFECTS IN PRE-PRIME SURFACE WITH ZINC CHROMATE PRIMER & APPLY ONE UNIVERSAL UNDER COAT & TWO COATS EPMP GOLDEN BROWN GLOSS ENAMEL PAINT ON STEEL
GLAZING	6.28mm OBSCURE SAFETY GLASS
NO. REQUIRED	6

**ENTRANCE DOOR**

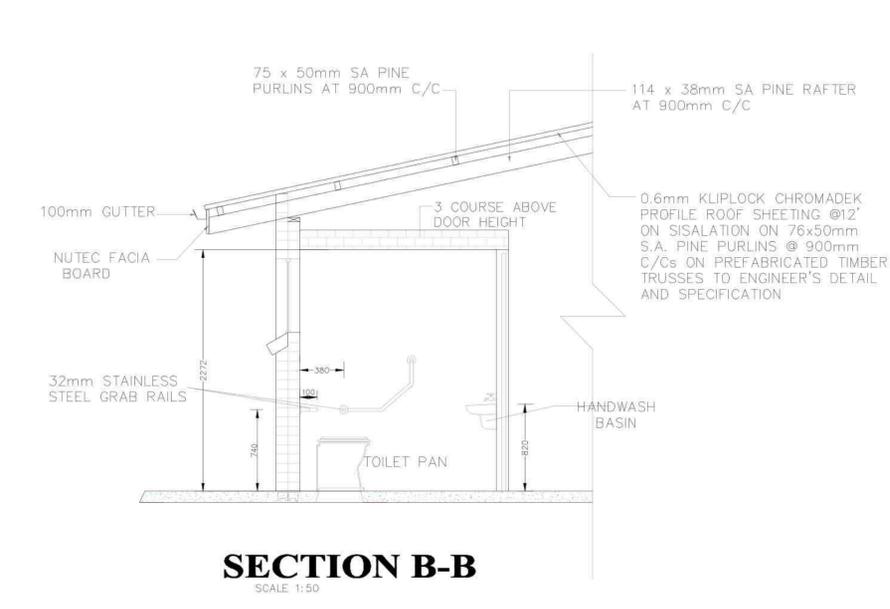
FRAME TYPE	SINGLE REBATE STEEL FRAME TO FIT 225mm WALL (D1)
FRAME FINISH	PRIME AND PAINT UNDERCOAT AND 2 COATS FINISHING COATS IN GLOSS ENAMEL COLOUR TBC
DOOR LEAF	44mm FRAMED LEDGED AND BRAZED DOOR SIZE 813x2032mm INCLUDING EXTERNAL WEATHER BAR
LEAF FINISH	UNDER COAT AND MINIMUM 2 COATS GLOSS ENAMEL - COLOUR TBC
LOCK	3 LEVER MORTISE LOCK SET
IRONMONGERY	100mm BRACE CABIN HOOK

**CUBICLE DOOR**

FRAME TYPE	SINGLE REBATE STEEL DOOR FRAME TO FIT 225mm WALL (D1)
FRAME FINISH	PRIME AND PAINT UNDERCOAT AND 2 COATS GLOSS ENAMEL - COLOUR TBC
DOOR LEAF	44mm FRAMED LEDGED EMBRACED DOOR SIZE 813x2032mm (DOOR RAISE BY 150mm TO TOP OF FRAME)
LEAF FINISH	UNDER COAT AND MINIMUM 2 COATS GLOSS ENAMEL - COLOUR TBC
LOCK	TOILET INDICATOR LOCK
IRONMONGERY	100mm CHROME PLATED "D" TYPE HANDLE 3 BY SOLID BRACE HINGES

**BUGLAR DOOR**

TYPE	G1	2 OFF
POSITION	EXTERNAL TOILET BLOCK	
DOOR TYPE	PURPOSE MADE SQUARE HOLLOW SECTION MILD STEEL SECURITY GATE	
DOOR FINISH	1 COAT ZINC CHROMATE PRIMER MINIMUM 2 COATS GLOSS ENAMEL (EXTERNAL QUALITY)	
FRAME	50x38x16mm M.S. RECTANGULAR HOLLOW SECTION FRAME	
FRAME FINISH	1 COAT ZINC CHROMATE PRIMER MINIMUM 2 COATS GLOSS ENAMEL (EXTERNAL QUALITY)	
DOOR	38x28x16mm RECTANGULAR HOLLOW SECTION FRAME WITH 2x25x16 INTERMEDIATES AT 100mm CENTERS AT A 45° ANGLE COLOUR TBC	
IRONMONGERY	SECURITY DOUBLE THROW DEAD LOCK (NO LATCH)	



NO.	DATE	REVISION	DRAWN

**NOTES AND SPECIFICATIONS:**

**GENERAL**

- Use dimensions provided and do not scale drawing.
- All work to comply with SANS, PW371 and SABS.
- All dimensions, levels and positions to be verified on site prior to construction.
- All concrete work to be as per Engineer's details and specifications.
- All pits to face bottom.
- All brickwork to be laid at every 2nd course in pit lining and 3rd course in superstructure.

**PIT EXCAVATION**

- All stages of pit excavation to be inspected and approved by Engineer and signed off.
- All pit lining to be inspected by Enviro-Loos Services before slab casting.

**COMPACTION OF SURFACES**

All ground surfaces receiving concrete floors / slab should be compacted to 150mm layer 50% MVDADTD density before casting concrete.

**CONCRETE WORKS**

1. All concrete to be as per Engineer's details and specifications.

2. 25 MPa strength concrete to be used throughout construction.

Total Concrete Mixes: Proportions

Concrete Strength at 28 Days 25MPa:

1 : 2 : 2 (mix proportion by volume)

1 bag cement : 0.08m3 Sand : 0.08m3 Stone (Volume/Bag)

385 kg cement : 800 kg sand : 850 kg stone (Mass/m3)

3. Pre-cast concrete lintels to be used as support under top slab of pit.

4. All concrete aprons to be 100mm wide.

**MORTAR**

Mixed proportions to be:

1 cement : 3 sand

(i.e.1 bag cement : 3 wheelbarrows (37 litres) sand)

**BRICKWORK**

Sub-structure

- All pit lining / foundation brickwork to be solid NFP clay brick.
- All internal surface of pit lining to be painted with two coats black waxy paint.
- Installing Enviro-Loos units.

Super-structure

- All external walls / partitions to be of clay face brick to SABS quality.
- All cubicle partition walls to be 3 courses above door height.
- All brickwork above door openings should have brickwork on every course of least 3 courses.
- All bricks: Standard 200x100mm terra-cotta semi-profiled loured 45° grating to be used above all window openings.

**ROOF SHEETING**

0.6mm kliplock chromadek roof sheeting

**ROOF TIMBER / CEILING**

- All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
- Timber connections (Hurricane Clips) are required at all intersections between timber rafters and parties.
- Spoliation is to be applied interval under all roof surfaces.

**METALWORK**

1. All metalwork should be primed before installation.

2. All steel window should have 100mm flap bar burglar proofing.

**PUMING**

- Double concrete wash trough to be used.
- All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway.
- The soakaway should be as per Engineer's detail and position to be determined on site.
- Only 20mm and gasketed pieces should be used as connection from wall to the discharge points.

**GLAZING**

1. 6.28mm obscure safety glass.

**PAINTING**

- All paintwork to comply with SABS and PW371 specification.
- All steel window and door frames including doors and fascias / barge boards to be discharge points.

**CONSULTANTS**

**HIGH TEMPO INVESTMENT PTY LTD,**  
HOUSE 12, CYCAD STREET,  
TZANEEN  
Email : Hlaisit@gmail.com

DESIGNED	SIGNATURE	DATE	SHEET SIZE
MAWANDE MDLULI		26-5-2021	<b>A1</b>
DRAWN	SIGNATURE	DATE	SCALE
MAWANDE MDLULI		26-5-2021	<b>AS SHOWN</b>
VERIFIED	SIGNATURE	DATE	STATUS LEGEND
TIYANI HLAISI			1 - ARCHITECT 2 - ENGINEER 3 - CONSTRUCTION 4 - AS BUILT
VALIDATED	SIGNATURE	DATE	STATUS LEGEND
			1 - ARCHITECT 2 - ENGINEER 3 - CONSTRUCTION 4 - AS BUILT

**IMPLEMENTED BY**

**THE MVULA TRUST**  
A leading developmental NGO

THE MVULA TRUST  
25 RHODESDRIFT STR, RHODESDRIFT OFFICE PARK  
POLOKWANE  
0699  
FAX: 015 291 1270  
TEL: 015 291 2495

**SPONSOR**

**LIMPOPO**  
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REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**EDUCATION**

**PROJECT**

**LDoE 2021/22 - Limpopo Department of Education Schools Water and Sanitation Programme - MUHVHINI SCHOOL**

**PROVINCE: LIMPOPO**

**DRAWING TITLE**

**GR4**

EMIS NUMBER	DISCIPLINE	DRAWING No.	STATUS REVISION
	CIVIL ENGINEERING & PROJECT MANAGEMENT	FD1-A	