

NO	DATE	REVISION	DRAWN

ARCHITECT

..... Office (atCorporate Security/Police Station)

CIVIL ENGINEER

MAPOX CONSULTING ENGINEERS
PO BOX 1000
1000 MC DONALD AVENUE
PORT KAITUMA
TEL: 015 291 2161/2168

SIGNATURE	DATE	SHEET SIZE
DESIGNED EA	14.11.2015	SCALE A1
DRAWN NA	14.11.2015	
CHECKED EA	14.11.2015	
VALIDATED		BY: DATE: REVISION:

IMPLEMENTED BY



THE MVULA TRUST
161 LAMOROS MARINE STREET
PORT KAITUMA
TEL: 015 291 2161 FAX: 015 291 1720

SPONSOR



DEPARTMENT OF
EDUCATION

PROJECT
HLALUKWENI SECONDARY SCHOOLS

PROVINCE: LIMPOPO
DRAWING TITLE
FEMALE & SEATS ENVIROLOO
MSDS - FEMALE EDUCATORS

DRAWING NO.	STATUS	REVISION
CIVIL ENGINEERING	MSD-SAB-MAL	T 0

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 North.
- All brickwork have brickforce at every 2nd course in pit lining and 3rd course in superstructure.

PIT EXCAVATION

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

COMPACTION OF SURFACES

All ground surfaces receiving concrete floors / slab should be compacted to 150mm layers 93% ModAASHTO density before casting concrete.

CONCRETE WORKS

- All concrete to be as per Engineer's details and specifications.
 - 25 MPa strength concrete to be used throughout construction.
- Thiol Concrete Mixes: Proportions
- Concrete Strength at 28 Days 25Mpa:
- 1 bag cement : 0.08m³ Sand : 0.09m³ Stone (Volume/Bag)
385 kg cement : 820 kg sand : 960 kg stone (Mass/m³)
- Pre-cost concrete lintols to be used as support under top slab of pit.
 - All concrete aprons to be 1000mm 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 pointed with two coats black epoxy point installing Enviro-Loo 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 brickforce on every course at least 3 courses.
- Air bricks: Standard 230X152mm terra-cotts vermin proofed louvered air grating to be used above all window openings.

ROOF SHEETING

- 0.6mm klaplock 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 all interconnections between timber rafters and purlins.
- Sisalation is to be applied interval under all roof surfaces.

METALWORK

- All metalwork should be primed before installation.
- All steel window should have 6x20mm flat bar burglar proofing.

PLUMBING

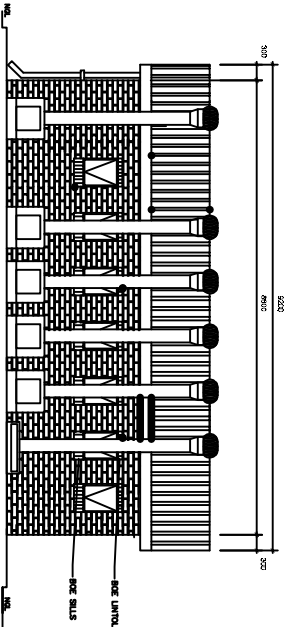
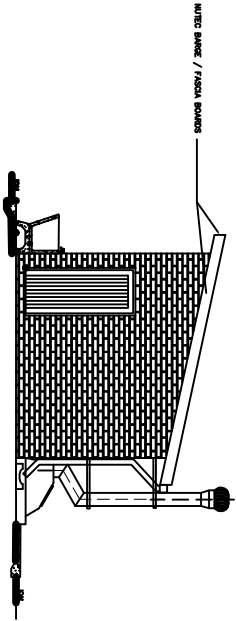
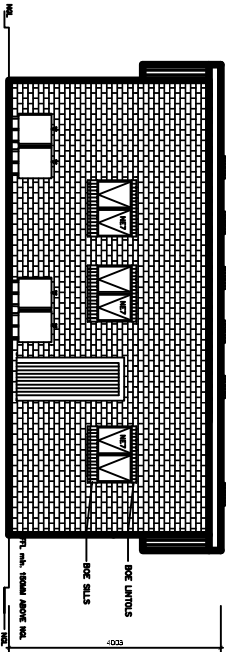
- Double concrete wash trough to be used.
- All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway
- The soakaway should be as per Engineer's detail and position to be determined on site.
- Only 20mm and galvanised pipework should be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

GLAZING

- 6,28mm obscure safety glass
- Stainless steel mirrors size 350x450mm high.

PAINTING

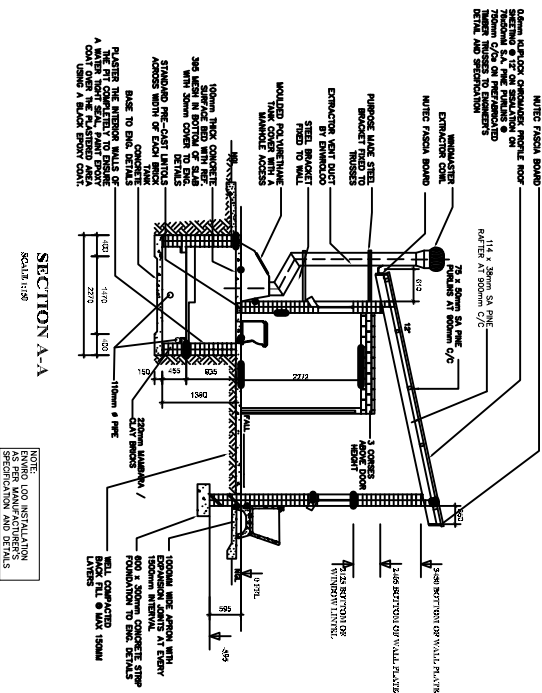
- All paintwork to comply with SABS and PW371 specification.
- All steel window and door frames including doors and fascia / barge boards to be discharge points.



BACK ELEVATION

GENERAL NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND STANDARDS OF 1990
- CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.



SECTION A-A

NOTE:
DRAWING FOR INSTALLATION
SPECIFICATION AND DETAILS

SIDE ELEVATION

FLOOR LAYOUT

TANK PLAN

SDM 5