

FEMALE TOLET

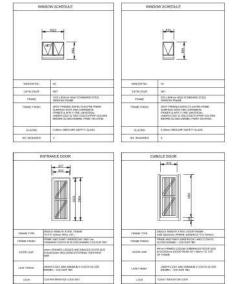
FLOOR LAYOUT





ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND BASS 9400 OF 1990

CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.



### NOTES AND SPECIFICATIONS:

- GENERAL

  1. Use dimensions provided and do not sclae drawing

  2. All work to comply with SANS, PW371 and SABS.

  3. All dimensions, levels and positions to be verified on site prior to construction.
- 4. All concrete work to be as per Engineer's details and specifications.
- 5. All pits to face North.
- 5. All brickwork have brickforce at every 2nd course in pit lining and 3rd course in

#### PIT EXCAVATION

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

2. All pit lining to be inspected by EnviroLoo 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.
 S MPa strength concrete to be used throughout construction:

Trial Concrete Mixes: Proportions

Concrete Strenght at 28 Days 25Mpc.

1: 2: 2 (mix proportion by volume)

1: bag cement: 0.08m3 Sand: 0.09m3 Stone (Volume/Bag)

365 kg cement: 820 kg sand: 960 kg stone (Mass/m3)

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

4. All concrete aprons to be 1000mm wide.

Mixed proportions to be:
1 cement : 3 sand
(i.e.1 bag cement : 3 wheelbarrows (37 litres) sand)

# BRICKWORK Sub-structure

1. All pit lining / foundation brickwork to be solid NFP clay brick.

All internal surface of pit lining to be painted with two coats black expoxy paint Installing Enviro—Loo units

#### Super-structure

All external walls / partitions to be of clay face brick to SABS quality.

- 2. All cubicle partition walls to be 3 courses above door height.
- 3. All brickwark above door openings should have brickforce on evry course at least 3
- 4. Air bricks. Standard 230X152mm terra—colts vermin proofed lourved air grating to be used above all window openings.

#### ROOF SHEETING

1. 0.6mm kliplock chromadek roof sheeting.

#### ROOF TIMBER / CEILING

- 1. All roof timbers to be machined SABS treated wood with three coats of approved wood
- preservative.
  2. Timber connections (Hurricane Clips) are required all intercessions between timber rafters and purlins.
- 3. Sisulation is to be applied interval under all roof surfaces.

# METALWORK

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

### PLUMBING

- 1. Double concrete wash trough to be used.
- 2. All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway.

  3. The soakaway should be as per Engineer's detail and position to be determined on site.
- 4. Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

1. 6.28mm obscure safety glass.

### PAINTING

1. All paintwork to comply with SABS and PW371 specification.

2. All steel window and door frames including doors and fascia / barge boards to be discharge points.

## CONSULTANTS

NO. DATE REVISION



# ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	RN	09-11-2019	SCALE
DRAWN	DRA	69-11-2019	SCALE
VERIFIED	RN	00-11-2010	STATUS LESEND
VALIDATED	ST	69-11-2019	C +CONSTRUCTION

### IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
RHODESDBIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL; 015 291 2405 FAX: 015 291 1270

SPONSOR



### PROJECT

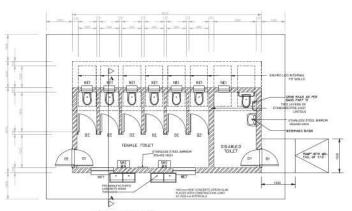
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

PROVINCE: LIMPOPO DRAWING TITLE

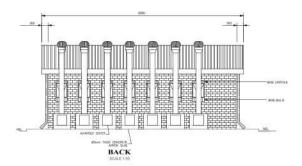
FEMALE 6 SEAT ENVIROLOO PUBLIC WORKS

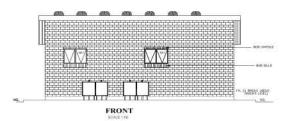
PROTOTYPE MPHANAMA PRIMARY SCHOOL

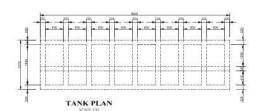
ARCHITECTURE TMT- MC- F6 C 0

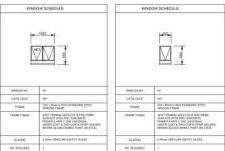


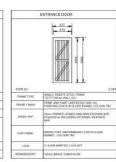
FLOOR LAYOUT

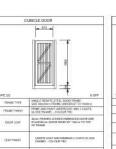


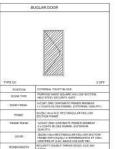






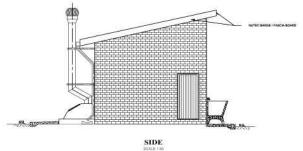


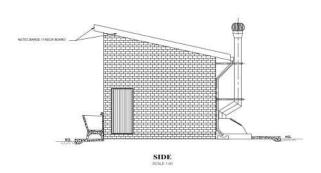




DIRECTOR SEALATION ON TOUGHT S A
PINE PLETANS OF SCHOOL COS ON
PREFARECATED TIMES TRUSSES TO
DEGMEER'S DETAIL AND SPECIFICATION 114 x 38mm 8A PRIE SAETER AT 988mm CVC 75 x 50mm 5A FRE 3450 BOTTOM OF WALL PLATE 2465 BOTTOM OF WALL PLATE 100mm ALLWINSON ZIN ..... 2125 BOTTOM OF STEEL BRACKET FRED TO WALL MOULDED POLYLINET TANK COVER WITH A KRIMIN THEK CONCRETE SURFACE BED WITH REF 316 MESH IN THE BOTTOM OF THE BLAR WITH SURFICE/SER TO ENGINEER'S DETAILS - 1250mm WIDE APPION WITH EXPANSIO JOINTS AT EVERY 1880mm INTERNAL STANDARD PRE-CAST LINFOLS ACROSS WIDTH OF EACH MIRCK TANK CONCRETE BASE TO PROMPTH'S DET 200 x 230WM CONCRETE STRIP FOUNDATION TO

SECTION A-A





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### PAINTING

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### CONSULTANTS

NO DATE REVISION



# ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

# IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
RHODESDBIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL; 015 291 2405 FAX: 015 291 1270

SPONSOR



PROJECT

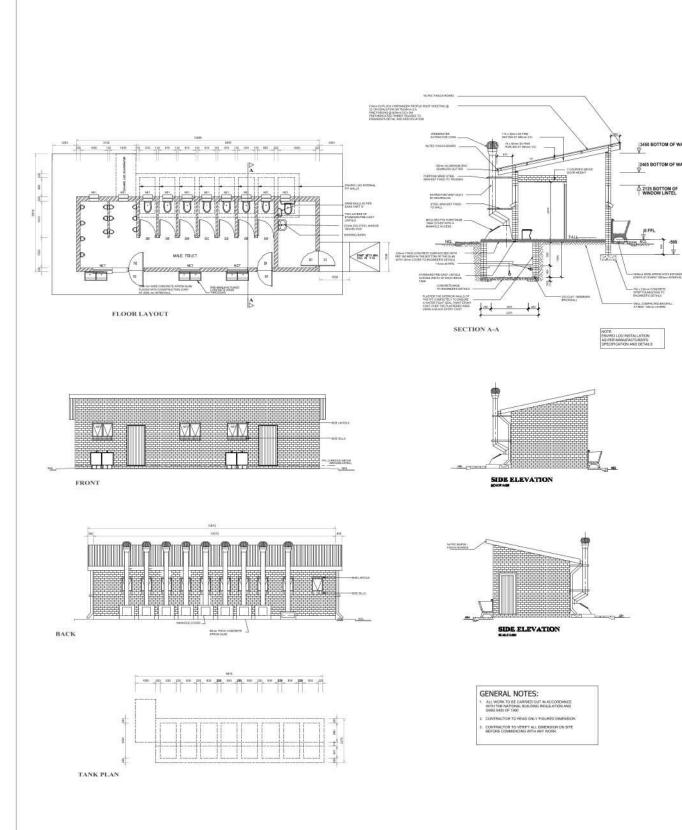
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

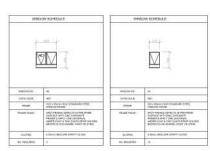
PROVINCE: LIMPOPO

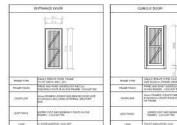
DRAWING TITLE

FEMALE 6 SEAT- 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE SHAVHANI PRIMARY SCHOOL

ARCHITECTURE TMT- MC- FD6 C 0











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#### CONCRETE WORKS

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- Concrete Strenght at 28 Days 25Mpc.

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### ROOF SHEETING

1. 0.6mm kliplock chromadek roof sheeting.

#### ROOF TIMBER / CEILING

- 1. All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
  2. Timber connections (Hurricane Clips) are required all intercessions between timber
- rafters and purlins.
- 3. Sisulation is to be applied interval under all roof surfaces.

### METALWORK

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

### PLUMBING

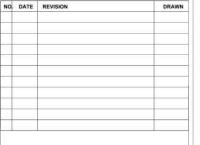
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1. 6.28mm obscure safety glass.

### PAINTING

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



### CONSULTANTS



## ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

# IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
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BENOOR EXTENSION 30
0839
TEL; 015 291 2405 FAX: 015 291 1270

SPONSOR





### PROJECT

LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

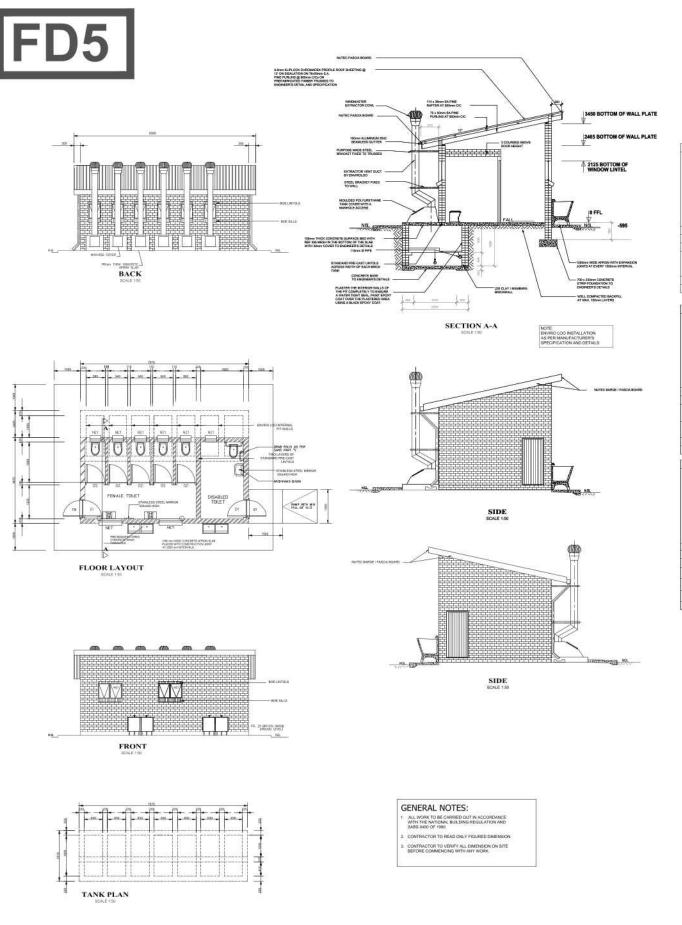
PROVINCE: LIMPOPO

DRAWING TITLE

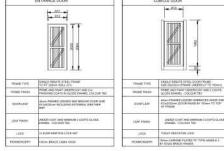
MALE 7 SEAT - 14 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE MPHANAMA PRIMARY SCHOOL

ARCHITECTURE TMT- MC - MD7 C 0





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#### NOTES AND SPECIFICATIONS:

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#### PIT EXCAVATION

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

2. All pit lining to be inspected by EnviroLoo 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

- 1. All concrete to be as per Engineer's details and specifications.
- 2. 25 MPa strength concrete to be used throughout construction:

#### Trial Concrete Mixes: Proportions

- Concrete Strenght at 28 Days 25Mpc.

  1: 2: 2 (mix proportion by volume)

  1: bag cement: 0.08m3 Sand: 0.09m3 Stone (Volume/Bag)

  365 kg cement: 820 kg sand: 960 kg stone (Mass/m3)

  3. Pre-cast concrete lintols to be used as support under top slab of pit.
- 4. All concrete aprons to be 1000mm wide.

## MORTAR

Mixed proportions to be: 1 cernent : 3 sand (i.e.1 bag cernent : 3 wheelbarrows (37 litres) sand)

#### BRICKWORK

#### Sub-structure

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#### Super-structure

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#### ROOF SHEETING

1. 0.6mm kliplock chromadek roof sheeting.

#### ROOF TIMBER / CEILING

- 1. All roof timbers to be machined SABS treated wood with three coats of approved wood
- preservative.
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# METALWORK

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- 2. All steel window should have 6x20mm flat bar burglar proofing.

### PLUMBING

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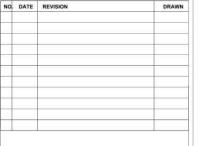
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## GLAZING

1. 6.28mm obscure safety glass.

### PAINTING

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



## CONSULTANTS



## ARCHITECT

	SIGNATURE	DATE	A1
DESIGNED	RN	09-11-2019	SCALE
DRAWN	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LABORATOR
VALIDATED	gt	69-11-2019	C +COMMINACION

### IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
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### SPONSOR



### PROJECT

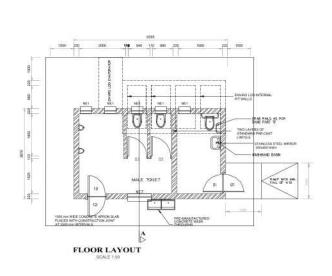
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

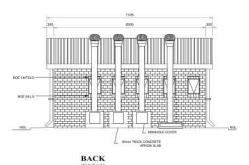
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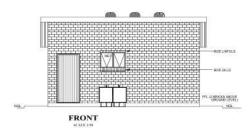
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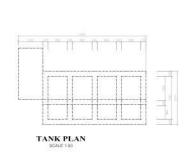
FEMALE 5 SEAT-1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE SHAVHANI PRIMARY SCHOOL

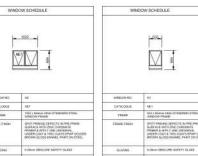
EMIS NUMBER	DISCIPLINE	DRAWNS No.	STATUS	REVISION
	ARCHITECTURE	TMT- MC- FD5	C	0

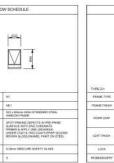


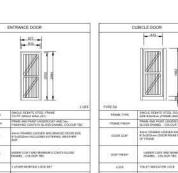


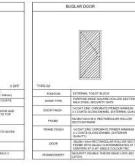


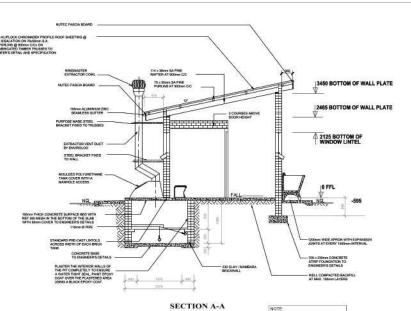


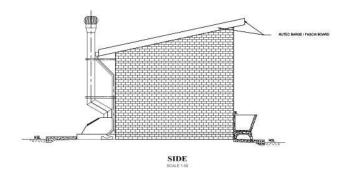


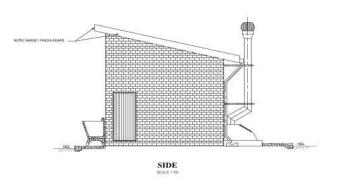














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### ROOF SHEETING

1. 0.6mm kliplock chromadek roof sheeting.

#### ROOF TIMBER / CEILING

- 1. All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
  2. Timber connections (Hurricane Clips) are required all intercessions between timber
- rafters and purlins.
- 3. Sisulation is to be applied interval under all roof surfaces.

### METALWORK

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

### PLUMBING

- 1. Double concrete wash trough to be used.
- 2. All wash troughs should be connected to the school's water supply system and
- the waste water should be piped to a soakaway.

  3. The soakaway should be as per Engineer's detail and position to be determined on site.
- 4. Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

1. 6.28mm obscure safety glass.

### PAINTING

1. All paintwork to comply with SABS and PW371 specification.

2. All steel window and door frames including doors and fascia / barge boards to be discharge points.

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# CONSULTANTS

NO DATE REVISION



### ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	RN	09-11-2019	SCALE
DRAWN	DRA	69-11-2019	SCALE
VERIFIED	RN	00-11-2010	STATUS LEGENS
VALIDATED	ST	09-11-2019	C +CONSTRUCTION

# IMPLEMENTED BY



THE MULLA TRUST
25 RHODESDRIFT STREET
RHODESDRIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL; 015 291 2405
FAX: 015 291 1270

SPONSOR



LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

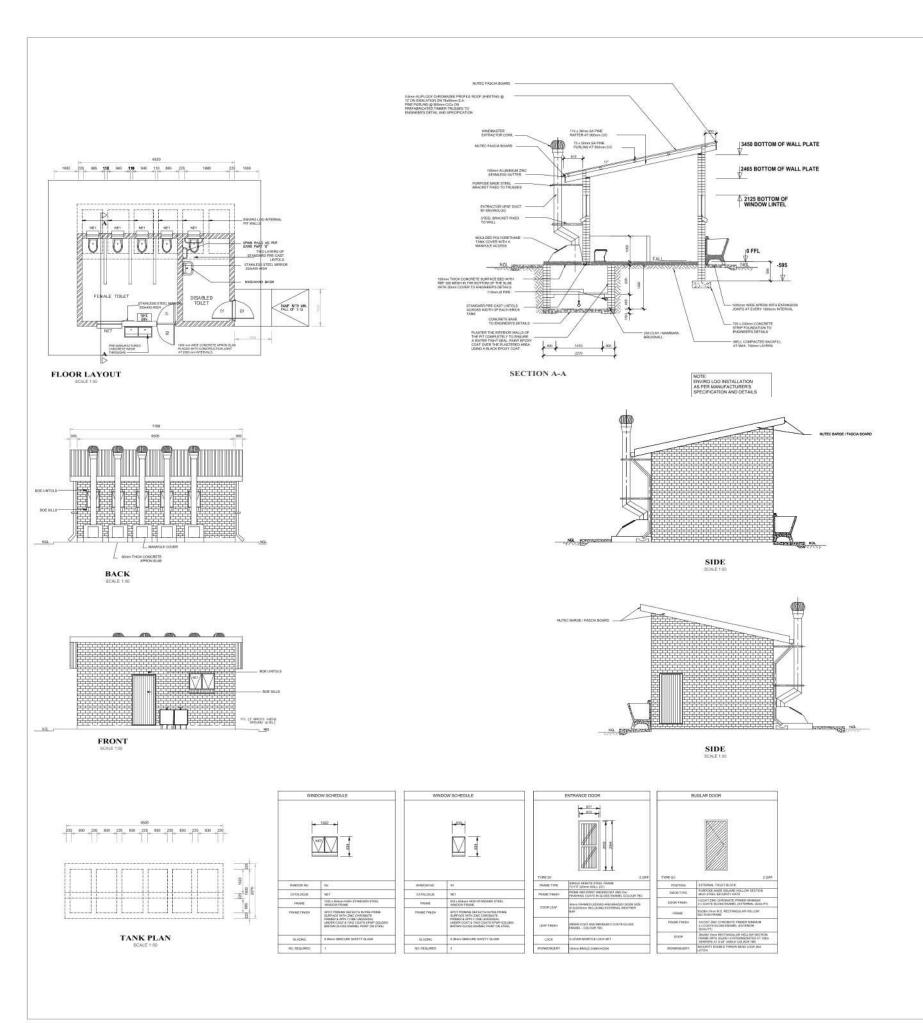
PROVINCE: LIMPOPO

DRAWING TITLE

MALE 2 SEAT - 2 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE MPHANAMA PRIMARY SCHOOL

ARCHITECTURE TMT- MC - MD2 C 0





NOTES AND SPECIFICATIONS:

- GENERAL

  1. Use dimensions provided and do not sclae drawing

  2. All work to comply with SANS, PW371 and SABS.

  3. All dimensions, levels and positions to be verified on site prior to construction.
- 4. All concrete work to be as per Engineer's details and specifications.
- 5. All pits to face North.
- 5. All brickwork have brickforce at every 2nd course in pit lining and 3rd course in

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

2. All pit lining to be inspected by EnviroLoo 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.

All concrete to be as per Engineer's details and specifications.
 S MPa strength concrete to be used throughout construction:

Trial Concrete Mixes: Proportions

Concrete Strenght at 28 Days 25Mpc.

1: 2: 2 (mix proportion by volume)

1: bag cement: 0.08m3 Sand: 0.09m3 Stone (Volume/Bag)

365 kg cement: 820 kg sand: 960 kg stone (Mass/m3)

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

4. 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

1. All pit lining / toundation brickwork to be solid NFP clay brick.

All internal surface of pit lining to be painted with two coats black expoxy paint Installing Enviro—Loo units

#### Super-structure

1. All external walls / partitions to be of clay face brick to SABS quality.

- 2. All cubicle partition walls to be 3 courses above door height.
- 3. All brickwork above door openings should have brickforce on evry course at least 3
- 4. Air bricks. Standard 230X152mm terra—colts vermin proofed lourved air grating to be used above all window openings.

#### ROOF SHEETING

1. 0.6mm kliplock chromadek roof sheeting.

### ROOF TIMBER / CEILING

- 1. All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
  2. Timber connections (Hurricane Clips) are required all intercessions between timber
- rafters and purlins.
- 3. Sisulation is to be applied interval under all roof surfaces.

### METALWORK

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- 2. All steel window should have 6x20mm flat bar burglar proofing.

### PLUMBING

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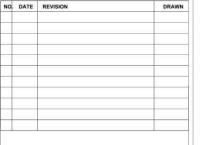
  3. The soakaway should be as per Engineer's detail and position to be determined on site.
- 4. Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

1. 6.28mm obscure safety glass.

### PAINTING

1. All paintwork to comply with SABS and PW371 specification.

2. All steel window and door frames including doors and fascia / barge boards to be discharge points.



### CONSULTANTS



# ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

### IMPLEMENTED BY



THE MULLA TRUST
25 RHODESDRIFT STREET
RHODESDRIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL; 015 291 2405
FAX: 015 291 1270

SPONSOR



### PROJECT

LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

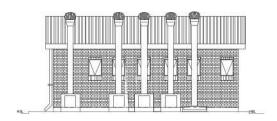
PROVINCE: LIMPOPO

DRAWING TITLE

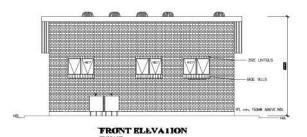
GRADE R FEMALE 4 SEAT- 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE. MPHANAMA PRIMARY SCHOOL

MS MUMBER	DISCIPLINE	DRAWING No.	STATUS.	REVISION
	ARCHITECTURE	TMT-MC- GRFD4	c	0



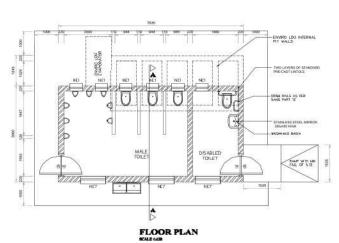


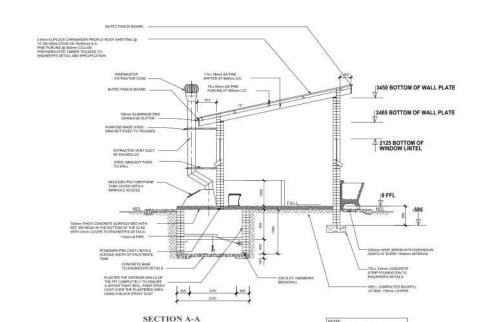
### BACK ELEVATION

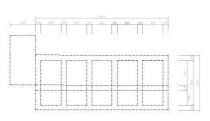




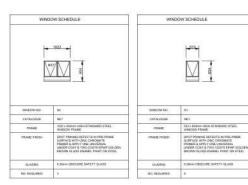
SIDE ELEVATION

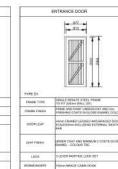


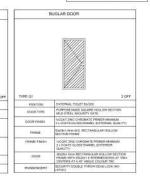




TANK PLAN







NOTES AND SPECIFICATIONS:

- GENERAL

  1. Use dimensions provided and do not sclae drawing

  2. All work to comply with SANS, PW371 and SABS.

  3. All dimensions, levels and positions to be verified on site prior to construction.
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- preservative.
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# METALWORK

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

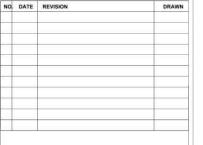
- 1. Double concrete wash trough to be used.
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- 4. Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

1. 6.28mm obscure safety glass.

1. All paintwork to comply with SABS and PW371 specification.

2. All steel window and door frames including doors and fascia / barge boards to be discharge points.



### CONSULTANTS



# ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

### IMPLEMENTED BY



THE MVULA TRUST
25 RHODESDRIFT STREET
RHODESDRIFT OFFICE PARK
BENDOR EXTENSION 30
0699
TEL; 015 291 2405 FAX: 015 291 1270

SPONSOR





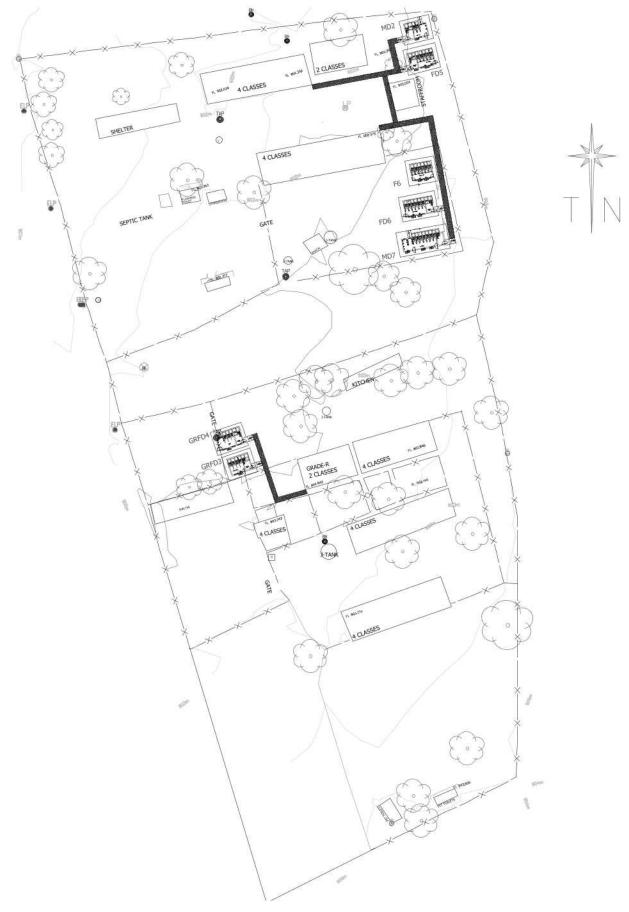
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

DRAWING TITLE

GRADE R MALE 3 SEAT 8 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE. HEROLD RUDZANI PRIMARY SCHOOL

ARCHITECTURE TMT-MC - C

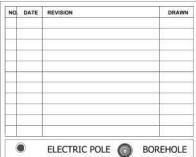




SCHOOL LOCATION				
NAME	LONGITUDE	LATITUDE		
HEROLD RUDZANI PRIMARY SCHOOL	29,7930172	-23,0811919		

Coodinates List (WG31)					
NAME	Y-COORD	X-COORD	Z-COORD		
BM1	123651.940	2553906.854	901.347		
ВМ2	123645.931	2553815.377	901.459		
BASE	123689.879	2553928.845	900.981		
ВМ7	123554.668	2554069.979	903.496		
ВМ6	123588.975	2554179.537	904.212		

SETTING OUT COODINATES					
BUILDING	POINT	Y-COORD	X-COORD		
MD2	A1	-123585,114	-2553943,965		
	A2	-123584,212	-2553947.733		
	A3	-123578,788	-2553942,451		
	A4	-123577,886	-2553946,219		
FD5	B1	-123584,114	-2553943,965		
	В2	-123583,212	-2553956,526		
	В3	-123576,743	-2553950,994		
	B4	-123575,842	-2553954,763		
F6	C1	-123583,491	-2553985,574		
	C2	-123582,807	-2553989,388		
	С3	-123577,154	-2553984,437		
	C4	-123576,470	-2553988,25		
FD6	D1	-123585,440	-2553996,299		
	D2	-123584,755	-2553994,780		
	D3	-123576,977	-2554000,113		
	D4	-123576,293	-2553998,594		
МВ7	E1	-123586,076	-2554006,580		
	E2	-123585,392	-2554010,394		
	E3	-123573,692	-2554004,358		
	E4	-123573,007	-2554008,171		
GRFD4	F1	-123641,113	-2554072,947		
	F2	-123639,861	-2554076,62		
	F3	-123633,873	-2554070,863		
	F4	-123632,617	-2554066,885		
GRFD3	F1	-123637,514	-2554072,947		
	F2	-123636,284	-2554076,62		
	F3	-123631,286	-2554070,863		
	F4	-123630,056	-2554074.537		



NEW WALK WAY

ELECTRIC BOX TAP LP

LIGHT POLE

TRANSFORMER ROUNDING EYE

STAY STAY

 $\mathbb{S}B$  sign board

JOJO - TANK TREE

\_\_X\_ EXISTING FENSE CONSULTANTS



ARCHITECT

IMPLEMENTED BY



A DEGING GEVENOPTH
THE MVULA TRUST
25 INFODESDRIFT STREET
RINODESDRIFT STREET
RINODESDRIFT OFFICE PARK
BENDOM EXTENSION 30
6009
TEL: 015 291 2405 FAX: 015 291 1270

SPONSOR



LPDoE HEROLD RUDZANI PRIMARY SCHOOL

PROVINCE: LIMPOPO

DRAWING TITLE
SITE DEVELOPMENT PLAN

ARCHITECTURE TMT-MC-SDP c