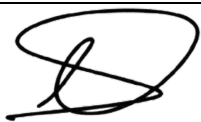
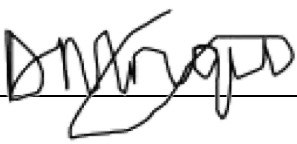


SPECIFICATION FOR A 150M SECTION OF CLEARVU (OR SIMILAR TYPE) OF FENCING WITH PIGGYBACK ELECTRIC TO BE INSTALLED IN AN AREA WITH HIGH WATER TABLE				
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<b>Local Business:</b>	Swartkops			
<b>Location:</b>	Gqeberha			

## 1. Scope of Work

This specification covers the additional requirements for the 150 meter section of fence running through a swamp like area with a high water table.

## 2. Applicable Standards

The following South African National Standards (SANS) shall apply:

- **SANS 10218-1 & 2** – Fencing: Design and installation
- **SANS 10222-3** – Electric security fence systems
- **SANS 121 (ISO 1461)** – Hot-dip galvanized coatings on fabricated iron and steel
- **SANS 10100-1** – Structural use of concrete
- **SANS 10160** – Basis of structural design and actions
- **SANS 10161** – Structural use of masonry (foundation piling principles)
- **SANS 1936** – Site investigations for construction
- **SANS 1200DB** – Subsoil drainage
- **SANS 10320** – Geotextiles
- **Construction Regulations under the Occupational Health and Safety Act, 1993 (Act 85 of 1993)**

## 3. Materials and Components

### Fence Posts

- Square hollow steel sections: Min. 60x60x2.5mm
- Coating: Galvanized to **SANS 121**, powder-coated
- Spacing: Max 3m centers with braced corners

## 4. Foundation and Ground Conditions

### 4.1 Excavation and Base Preparation

- Excavate trench **600mm wide x 1.5m deep**
- Line base with **non-woven geotextile** to **SANS 10320**
- Install **150mm G5 subbase**, compacted in 2 layers

### 4.2 Reinforced Concrete Plinths

- Concrete: 25MPa strength @ 28 days in accordance with **SANS 10100-1**
- Rebar: Y12/Y16 bars, spaced to structural design
- Min. plinth size: 400mm x 400mm x 700mm deep for each post

### 4.3 Piling

- Where soil bearing is inadequate, provide 300mm dia **bored concrete piles**, min 2.5m deep
- Concrete: 25MPa with anti-corrosion additives
- Anchoring: Starter bars to be epoxied into pile caps

## 5. Drainage and Stabilization

### 5.1 Subsoil Drainage System

- Install 110mm perforated UPVC drainage pipe wrapped in geotextile, laid on 200mm stone bed
- Backfilled with 19mm clean stone to 300mm above pipe
- Outlet to suitable sump or natural discharge area
- Design in accordance with **SANS 1200DB**

### 5.2 Slope and Water Control

- Fence line must be shaped to provide positive drainage

Install side swales or intercepting berms as required