

STANFORD ERF 1772: ELECTRICAL SERVICES REPORT

1. ELECTRICITY SUPPLY NETWORK

This development comprises of the following:

- a) The Overstrand Municipality will make an 11kV supply available at the Service Station across the road. RMU to be installed.
- b) A 70mm² PILC 11kV cable must be installed from this new switch to the minisubstation.
- d) The installation must be done strictly as per the consulting engineer's layout **drawing No. SF 20192/E1 Rev 2**, still to be approved by the municipality.

The entire distribution network shall be provided at the cost of the DEVELOPER.

The installation will also be according to the municipality's "Standard Guidelines for Electrical Services."

1.1 Underground services

The electricity network shall be an underground installation with all material/equipment and installation methods in accordance with the "Standard Guidelines for Electrical Services."

1.2 Impact on bulk and reticulation systems

The impact of this development on the existing 11kV supply in this area is not of such a nature that majure infrastructure upgrading is required.

1.3 Bulk service requirements (External 11kV connection)

No ring feed required.

1.4 Servitudes

All services will be installed in road reserves. No servitudes required.

1.5 Erf connections

Erf connections shall be for 60A single phase prepaid metering.

Due to the fact that this will be a secured village, all LV and prepaid metering will be by a private vendor.

1.6 Services charges

The developer will be responsible to pay the applicable bulk services levies on the bulk LV supply.

1.7 **Ownership and maintenance**

Ownership of the electricity supply network infrastructure as described in the plans and specification necessary for the development, shall **not** be transferred to the Overstrand Municipality. They will not be responsible for the operation and maintenance thereof.

2. **STREETLIGHTS**

The street lighting shall be provided at the cost of the DEVELOPER as per the client's requirements and specification.

2.1 **Underground services**

The electricity supply network to the streetlights shall be underground with all material/equipment and installation methods in accordance with the Guidelines for Township Electrical Services.

2.2 **Type of streetlight**

To be confirmed.

2.3 **Streetlights power supply**

The power to the new streetlights will be supplied from the new minisub.

2.4 **Connection to existing streetlights**

Not applicable.

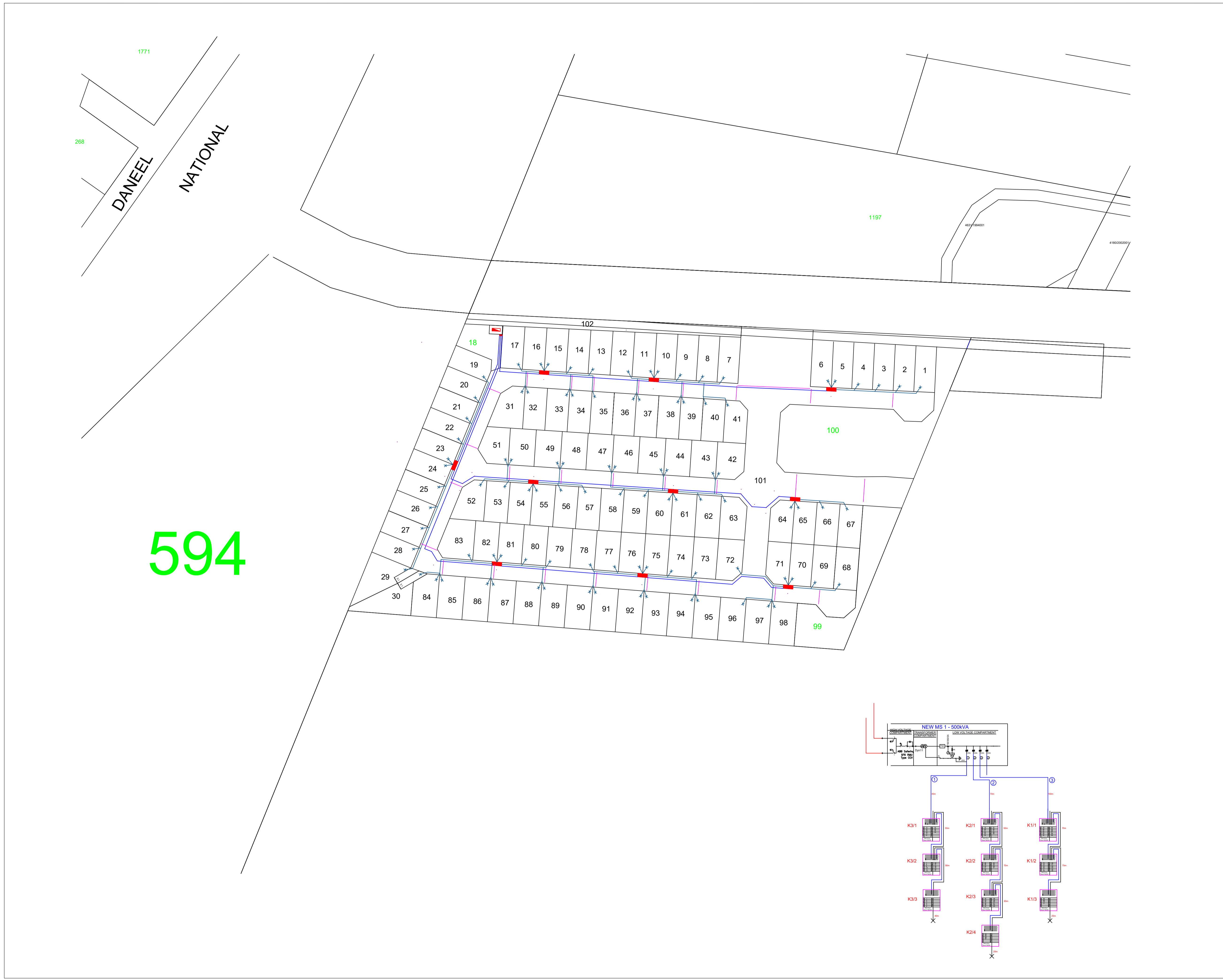
2.5 **Connection/metering**

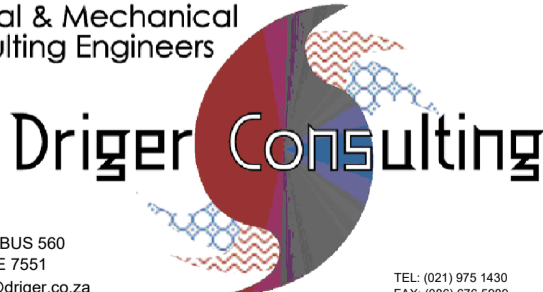
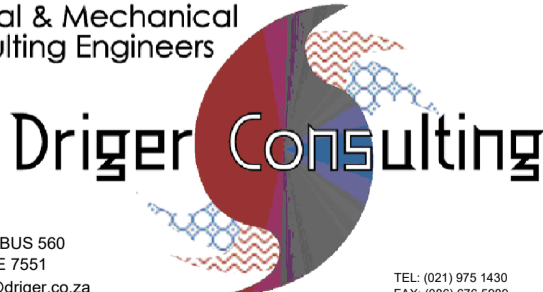
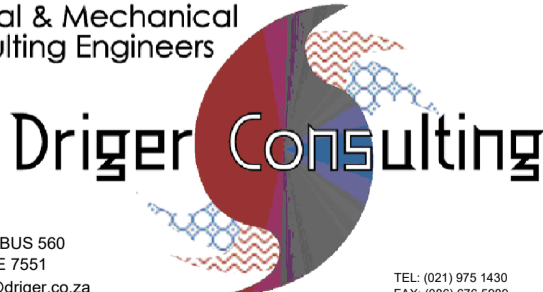
A threephase meter, with a cell phone modem, will be installed by the private vendor in the proposed minisub.

Compiled by:



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For Driger Consulting cc
082 4141 867



LEGEND/LEGENDE																																									
Symbol Simbool	Description/Beskrywing																																								
	NEW MINISUB																																								
	SERVICE CONNECTION CABLE INSTALLED 1m INTO ERF, 1m FROM SIDE & STREET BOUNDARIES. CABLES DIRECTLY BEHIND KIOSK TO BE INSTALLED.																																								
	16mm ² X 2 CORE (Cu), SERVICE CONNECTION CABLE, with 2x1mm ² PILOT CORES, INSTALLED 600mm BELOW FINISHED GROUND LEVEL UNLESS OTHERWISE SPECIFIED																																								
	4 CORE LV CABLE, PVC INSULATED STEEL WIRE ARMoured AND PVC SERVED WITH AI CONDUCTORS OF SIZE AS SHOWN ON SCHEMATIC WITH BARE COPPER EARTH WIRE.																																								
	HDPE DOUBLE DOOR LV DISTRIBUTION/MUNICIPAL METERING KIOSK TO MUNICIPAL SPECIFICATION																																								
	LV CABLE FEEDER No. 1																																								
	CABLE JOINT																																								
	2 x 110mm Dia. Class 34 uPVC SLEEVES																																								
	2 x 160mm Dia. Class 34 uPVC SLEEVES																																								
	HDPE SINGLE DOOR LV DISTRIBUTION KIOSK WITH 63A SINGLE POLE 6KA CURVE 1 CIRCUIT BREAKERS FOR PRE-PAYMENT METERS																																								
	3 PHASE MCB (175 Amp)																																								
	SINGLE PHASE MCB (60 Amp)																																								
	SINGLE PHASE ISOLATOR (20 Amp)																																								
	SPLIT PRE-PAYMENT METER																																								
	KWh METER (BODY CORPORATE)																																								
	PHOTO-CELL (DAY/NIGHT)																																								
1775	ERF NUMBER																																								
	STREET LIGHTING																																								
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