Appendix 3

Electrical services report
ECLIPSE ESTATE: ERF 233 TOWSrivier. TECHNICAL REPORT FOR ELECTRICITY SERVICES

1. It has been established that the proposed development is within the area of supply of the Breede Valley Municipality Supply Authority.

2. An application for Medium Voltage (MV) external supply to the proposed development has been submitted to the Supply Authority for planning and cost estimating.

3. The internal electricity services will be designed and installed by the developer to the standards required by the Supply Authority if required.

4. It is envisaged that the standard of distribution networks will be as follows:

   4.1 MV Distribution:

   Nominal supply voltage: 11000 volts; underground cables will be used to interconnect miniature substations where transformation will take place from 11000/400/230 volts, 3 phase supply for commercial and domestic customers.

   4.2 Low Voltage (LV) reticulation:

   600 volt PVC insulated underground cables will supply distribution kiosks and/or stubbies as required by the Supply Authority if necessary. Connection cables will be installed in common trenches from the distribution kiosks/stubbies to a point one metre inside each erf boundary.

   4.3 Street lighting:

   Will be designed to the developer’s requirements and installed in accordance with the Supply Authority’s specifications if required. Supply to street lighting standards will be by means of underground cables.
5. Estimated Demand:

The After Diversity Maximum Demand for the development is estimated to be about 1500 kVA which is derived as follows:

122 erven @ 2.5 kVA/erf = 305 kVA
129 erven @ 4.3 kVA/erf = 554 kVA
81 erven @ 2.25 kVA/erf = 182 kVA

Commercial load: = 300 kVA
Resort load: = 200 kVA, and
Street lighting = 10 kVA

TOTAL LOAD = 1551 kVA

-----------------------------------------------

B.G. VAN DER WATT