RIVERWOOD NORTH RESIDENTIAL RENEWAL PROJECT

ELECTRICAL AND COMMUNICATIONS INFRASTRUCTURE

ELECTRICAL SUPPLY

The electrical infrastructure will require to be upgraded and relocated to meet the maximum demand of the development.

The electrical maximum demand for the development is 3,350kVA which is broken up as follows:–

Phase	No. Units	Stage	Max Demand
Phase 01	68 Units	Stage 01	345kVA
Phase 01	55 Units	Stage 01	280kVA
Phase 01	27 Units	Stage 02	140kVA
Phase 02	177 Units	Stage 01	895kVA
Phase 02	159 Units	Stage 02 and 03	805kVA
Phase 02	175 Units	Stage 04	885kVA
		TOTAL	**3,350kVA**

Initial advice from the Supply Authority, Energy Australia, suggests that the existing substations located within the development will need to be decommissioned and removed. The existing Riverwood zone substation and high voltage network is near full capacity.

The existing high voltage network will need to be upgraded to meet the expected electrical load for the development. All new infrastructure for the development is proposed to be underground. It is proposed that the development be served from three padmount substations located within the development.

The above will require confirmation with Energy Australia when a formal application is made.

COMMUNICATION SERVICES

Telephone and Internet

The existing communications cable infrastructure in the existing road system within the development area is providing both telephone and internet services to the existing residential buildings. These services will need to be decommissioned and removed.

It is proposed that multiple underground communications conduits and pit systems be installed throughout the development. The multiple conduit and pit system will allow for the future installation of both copper communications cables and optical fibre communications cables from the available Network Carriers and Service Providers.

Pay TV

Pay TV is available via two methods, satellite dish or co–axial cable.

These two methods will be investigated during design with the relevant Service Providers.

For cable connection, the multiple conduit and pit system would be extended to each building.