

**Cardiff East Park & Ride Pre-Planning Summary****Rev 3 02-08-2022**

**1.0 The following load capacities are based upon Henry Mein Partnership drawing 7528-MEIN-XX-XX-DR-A-SL\_20 067 REV P3**

**2.0 Proposed capacity requirements**

Electricity 1500 kVA

Water 8 l/s plus fire fighting

There is no gas requirement for this site.

**3.0 Utility Information**

**3.1 Water**

**New supplies**

Welsh Water is currently undergoing network studies and hydraulic modeling to confirm capacity for the development and determine a point of connection. The results are still outstanding.

We assume that the connection point would be at the intersection between Ball In. and Ball rd., to a 200mm (9 inch) water mains. However, this would be subject to confirmation from Welsh Water.

**3.2 Electric**

**New Supplies**

Western Power Distribution have confirmed availability of supply and have indicated a Point of Connection at the substation situated behind no. 1 Ball lane.

**High Voltage Overhead Power Lines**

There are national grid 275KV overhead lines that run along the site. It will not be possible to divert these lines

Swing/Sag/Sway survey have been conducted and we are currently awaiting final ground levels to obtain approval to proceed from National Grid. At this stage we assume there would not be any breach of National Grid's Safety Requirements for development near their infrastructure.

An EMF assessment concluded that there is no EMF exposure risk to people beyond an exclusion zone of approximately 6 meters from the nearest overhead power line, so it is anticipated that there are no hazards from an EMF exposure point of view for the constructors and occupiers of the proposed development.

### **3.4 Telecoms**

#### **New supplies**

Openreach will remove existing supplies and install new supplies for the project. We assume there is sufficient availability for fiber connections to the development.

### **3.5 Pedestrian Footbridge**

We have received confirmation from Cardiff Council that the services on the footbridge across Rhymney River, were installed for the Park & Ride offices and will be disconnected when demolition/ construction on site begins.

### **3.6 External lighting Design**

Cardiff council have confirmed they use Signify lighting for their street lighting. Signify is developing their lighting design in accordance to guidelines received from the ecology consultant. A full lighting strategy have been developed and is available for review.

### **3.7 Renewables**

We are aware that that the development would require some energy to be produced from renewable sources, as per UK and Welsh government guidelines with regards to Part L.

### **3.8 Existing Park and Ride Lighting**

We've assessed the exiting Park & Ride Lighting which currently uses High Pressure Sodium lamps. We would advise that the remaining lights be upgraded to LED lamps

**10341/US-3**

**02/08/2022**