CASTLE PRIMARY SCHOOL

PLANNING STATEMENT FOR EXTERNAL LIGHTING

The Castle Primary school has been built on the old St Georges Middle School site with vehicular access from St Georges Road and pedestrian access from both St Georges Road and Barrack Road.

The school has been designed both as an educational establishment and also as a community facility for out of hours use by local communities.

In order to facilitate this use and to contribute to the overall safety and security of the new school and its environs and taking into account its location in the urban environment external lighting is proposed for the for reasons outlined below.

The security of the school needed to address the following issues and external lighting has been provided to enable these issues to be addressed during hours of low light or darkness:

1. The need to control and restrict pedestrian access to critical parts of the buildings during and after school curriculum hours.
2. The need to prevent access into the buildings after core hours and onto the premises at all other times.
3. The need to monitor the external perimeter of the buildings during core and after school hours.
4. The need to provide limited/restricted access into certain areas of the premises.

The Client, acknowledging these requirements, requested (Authorities Requirements) that an external lighting system be provided and maintained in accordance with DfES Building Bulletin 90, covering car parks, walkways and roads, entrances, particular building features, security requirements.

The Client has been particular in their request for details of the proposed levels of illumination for external areas and the following has been agreed:

"Illumination to external areas including roadways, car parking areas, pedestrian walkways, building entrances/exits and courtyards will be provided. Due regard will be given to using energy efficient lighting sources and time switch/photocell control to maximise energy conservation. Design service illumination levels will be as follows:

<table>
<thead>
<tr>
<th>Area</th>
<th>Illumination Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car Park lighting</td>
<td>20 lux at floor level</td>
</tr>
<tr>
<td>Vehicle Roads</td>
<td>10 lux at road level</td>
</tr>
<tr>
<td>Security lighting</td>
<td>20 lux at the building elevation</td>
</tr>
<tr>
<td>Pedestrian Areas</td>
<td>10 lux at floor level</td>
</tr>
<tr>
<td>Courtyards</td>
<td>10 lux at floor level</td>
</tr>
<tr>
<td>Building Entrance/Exits</td>
<td>20 lux at floor level</td>
</tr>
</tbody>
</table>

The above lux levels will be met using building mounted luminaires and supplemented where necessary by additional luminaries mounted on self-finish columns."

The choice of luminaire to undertake each function referred to above has been made with due regard to the efficiency of the lamp (lm/W) employed and its aesthetic appearance.

The choice of column has been made with respect to the optimum height and spacing required to ensure an even and efficient distribution of light.

Luminaires have been chosen and located to take account of that which is recommended in the "Institute of Lighting Engineers – Guidance Notes for the Reduction of Obtrusive Light" where there are adjacent occupied premises.

The external lighting systems have been provided such that illumination can be time controlled and react (photo-cell) to the lighting need (failing light/darkness etc).

The overall system programming/control will rest with the school caretaker/facility manager.