



Lighting Specification for Proposed Lighting Scheme.

For: the redevelopment of a petrol station.

Including demolition of existing sales building, canopy link and car wash/jet washes, erection of a new sales building, provision of car parking spaces, provision of EV charging bays and associated plant, erection of a new bin store, retention of forecourt and canopy and associated works.

At: Shell Welwyn Garden City, Stanborough Road, Welwyn Garden City AL8 6XA

(Please refer to Drawing SH71.1 and SH71.2).

Exterior Lighting

The canopy and area lighting is fitted with the latest LED (light emitting diode) technology.

The PFS canopy lighting layout is designed using fully recessed asymmetric and bisymmetric luminaires to provide a high degree of illumination control onto the pump islands and minimise unwanted light outside the canopy area.

The required illuminance for the Access Roads, Parking and Forecourt Areas are concentrated to provide minimum levels of light required for task and pedestrian/traffic route safety. Luminaire specifications, locations and mounting heights (mh) are shown on the Proposed Lighting Key Plan (with luminaire isolux contours) SH71.1

Assessment and Design Data

Condition 10 of Decision Notice 6/2021/2260/FULL states: No development above ground level shall take place until details relating to the external lighting (including vertical lux diagrams which show potential light trespass into windows of nearby residential properties) have been submitted to and agreed in writing by the Local Planning Authority. This scheme must meet the requirements within the Institution of Lighting Professionals guidance notes for the reduction of obtrusive lighting. The agreed lighting shall subsequently be implemented.

The Proposed Lighting Plan (Illuminance Lux Values HOR and VERT) SH71.2 provides a table of horizontal values in Lux taken at 0.8m above GL.

A table of vertical values (6m height) on the face of properties to the west boundary and to the gardens of the properties on the east boundary are included. All exterior lighting is specified with an LED beam control system enabling sharp cut off and control of beam direction (below 70 degrees), avoiding glare, trespass and night sky pollution.

A product datasheet is attached for each referenced luminaire type.

I am satisfied that the proposed lighting scheme for this site is compliant with ILP Guidance Note GN01/21 and will not cause light trespass beyond the proposed development boundaries.

Graham White (Senior Designer) GWLC

12/7/22