



**LC10 To be Privately Fed from LC09**

**GENERAL NOTES**

- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such. All documents shall be checked to ensure they are compatible by the contractor before construction commences. In the event of apparent ambiguity or contradiction, the designer shall be notified immediately. Aptus Utilities accept no liability in the event of not being notified and where construction work has commenced.
- Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers. Where information is apparently contradictory or ambiguous, the design engineer is to be notified immediately. Aptus Utilities accept no liability for setting out errors where work is construction to incorrect information.
- This design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.
- All electrical installation works must be in accordance with BS7671:2018
- This lighting design has been produced without a simultaneous contact risk assessment with regards to Electric vehicle chargers.

**HEALTH & SAFETY NOTES**

- All materials to bear the relevant BS kitemark and comply fully with the specifications. All materials to be agreed with the overseeing organisation or site representative prior to ordering.
- All statutory consents, opening notices etc. as required under Highways acts and water industries acts are to be obtained by the contractor prior to commencement of the works (unless otherwise stated). All works are to be inspected by Local Authority representative, NHBC or statutory authority as applicable.
- Contractor to make advance allowance for the management and coordination of statutory undertakers diversions within their programme of works. Presence of statutory undertakers equipment in the highway should be verified by the contractor on site prior to starting any works. The location of statutory plant shown on any plans is indicative only and should not be relied upon for the location of any pipework or cabling. The contractor should confirm the location of all stats plant by hand dug trial trenches prior to commencing any works. Allowance for the presence of all stats appropriate protection / diversion measures is to be put in place by the contractor (unless stated otherwise) where stats equipment are found to be within the area of highway works.
- The contractor is responsible for ensuring that all advance notices are in place and traffic management agreed for the works prior to commencing. The contractor is to make allowance for the advance provision of all electrical works and equipment for signals and street lighting within their programme of works.
- This drawing is to be read in conjunction with others for this project.

**CDM REGULATIONS 2015**

In line with the above regulations We are obliged to inform the client of the risks that may be encountered in the construction of these works. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the works. We would also respectfully remind the client of his obligations to take all reasonable steps in ensuring that only competent contractors who have a valid safety policy are employed. they should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by below:-

- Trench excavations in excess of 1.2m deep.
- Guarding to edges of excavations to prevent people, materials and vehicles falling into excavation.
- Guarding of excavations outside working hours to prevent unauthorised access.
- Undermining to adjacent roads or structures.
- Confined space operations.
- Dealing with existing services.
- Traffic management on existing highways and protection of site personnel and members of the public.
- Procedure to be followed in event of accident or emergency.
- Method of working where contaminated ground is present on site.
- Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied. Any construction personnel, including operatives intending to construct the designs shown on this drawing should ensure that they have been regularly and thoroughly briefed by the principal contractor on all health and safety matters and have had sight of:-
  - The full designers and contractors risk assessments and risk registers.
  - The developed construction Health and Safety plan.
  - The contractors construction method statements.

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public.

**Lighting Column:**  
Proposed galvanised tubular steel lighting column of 5.0 metre nominal height with a planted base as supplied by Fabrikat to Lancashire County Council Street Lighting Specification.

**Manufacturer Reference:**  
Luminaire:  
Proposed post top mounted Urbis Schreder Luminaire.  
Manufacturer Ref: AXIA 3.1 5266 16 LED OLSON SQUARE GIANT 160mA WW 230V  
Lumen Output: 1.48klm  
Colour Temperature: Warm White 2700K  
Luminaire Tilt Inclination: 0°  
Control Gear: DALI enabled driver  
Control Type: Zodion SSS PECU 10 lux (1:1 ratio)  
Dimming Profile: Luminaires dimmed to 50% lumen output from 19:00 to 07:00  
Supply: IDNO - GTC  
Primary Isolator: IDNO Approved  
Secondary Isolator: N/A  
Internal Wiring: Internal wiring to luminaire shall be 1.5mm<sup>2</sup> PVC insulated flexible cable  
Door Orientation: Perpendicular to kerb

**Lighting Column:**  
Proposed galvanised tubular raise and lower steel lighting column of 5.0 metre nominal height with a planted base as supplied by Fabrikat to Lancashire County Council Street Lighting Specification.

**Manufacturer Reference:**  
Luminaire:  
Proposed post top mounted Urbis Schreder Luminaire.  
Manufacturer Ref: AXIA 3.1 5266 16 LED OLSON SQUARE GIANT 160mA WW 230V  
Lumen Output: 1.48klm  
Colour Temperature: Warm White 2700K  
Luminaire Tilt Inclination: 0°  
Control Gear: DALI enabled driver  
Control Type: Zodion SSS PECU 10 lux (1:1 ratio)  
Dimming Profile: Luminaires dimmed to 50% lumen output from 19:00 to 07:00  
Supply: IDNO - GTC  
Primary Isolator: IDNO Approved  
Secondary Isolator: N/A  
Internal Wiring: Internal wiring to luminaire shall be 1.5mm<sup>2</sup> PVC insulated flexible cable  
Door Orientation: Perpendicular to kerb

**Lighting Column:**  
Proposed galvanised tubular raise and lower steel lighting column of 5.0 metre nominal height with a planted base as supplied by Fabrikat to Lancashire County Council Street Lighting Specification.

**Manufacturer Reference:**  
Luminaire:  
Proposed post top mounted Urbis Schreder Luminaire.  
Manufacturer Ref: AXIA 3.1 5266 16 LED OLSON SQUARE GIANT 160mA WW 230V  
Lumen Output: 1.48klm  
Colour Temperature: Warm White 2700K  
Luminaire Tilt Inclination: 0°  
Control Gear: DALI enabled driver  
Control Type: Zodion SSS PECU 10 lux (1:1 ratio)  
Dimming Profile: Luminaires dimmed to 50% lumen output from 19:00 to 07:00  
Supply: Private cable network Fed from LC09  
Primary Isolator: Double Pole Isolator with BS88-2 6A HRC fuse  
Secondary Isolator: N/A  
Internal Wiring: Internal wiring to luminaire shall be 1.5mm<sup>2</sup> PVC insulated flexible cable  
Door Orientation: Perpendicular to kerb

- ELECTRICAL CONNECTION KEY:**  
LC\*\* - Lighting Column identification number
- ELECTRICAL CONNECTION TYPE:**  
IDNO - Proposed Independent DNO supply connection
- ISOLUX CONTOUR KEY - As per Pages 6 & 22 ILP GN08/2018**
- 0.2 Isolux contour line 'Complete Darkness'
  - 0.5 Isolux contour line 'Clear full moon'
  - 1.0 Isolux contour line 'Twilight equivalent'
  - 5.0 Isolux contour line 'Typical Side Road Lighting'
  - 10.0 Isolux contour line 'Sunset'
  - 0.6 Isolux contour line 'Emin for P5'
- Back shield to be fitted to prevent backward light spill**

E	LC13 moved at LCC request	06/07/21	LJS
REVISION	DESCRIPTION	DATE	BY
<b>DEVELOPMENT</b>			
Oak Lane, Newton-With-Scales			
<b>DEVELOPER</b>			
Westchurch Homes			
<b>DRAWING:</b>			
PROPOSED S38 STREET LIGHTING DESIGN			
<b>CONTRACT NUMBER</b>			
AP1624			
<b>DRAWING REF NUMBER</b>			
AP0524-692			
<b>REVISION</b>			
E			
<b>SHEET NO.</b>	SHEET 1 OF 1	SCALE: NTS	@A1
<b>DRAWN BY:</b>	L STUCKEY	26/10/2020	<b>STATUS:</b>
<b>APPROVED BY:</b>	B STODDARD	14/07/2021	<b>CONSTRUCTION</b>

