

Notes

1. All columns and illuminated signs shall be serviced via DNO supplies and fitted with a 25A fuse.
2. The design and installation of lighting and electrical equipment must fully comply with the current edition of E-on Street Lighting documents - "Street Lighting Design Policy" ref SLP500, "Specification for lighting and lit traffic signs on new developments" ref SLP501 and "Highway Works Detail drawings" ref SLP502.
3. It is the responsibility of the contractor to liaise with the DLH for a mains service to street lighting and lit traffic signs unless otherwise instructed.
4. Dimming gear to be fitted in lanterns, Philips Xitanium driver and integrated dynadimmer pre-programmed for stand-alone operation. See Key and table for dimming notes.
5. Columns shall be fitted with secondary isolation above the DNO cut out. The Unit shall be as Staffordshire County Council specification i.e. Charles Endirect LSI-02 with a 32A Isolator and as BS88 Fuse Carrier. Fuse discrimination shall comply with BS7671 between the DNO cut out and the secondary isolation.
6. Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.
7. In this instance the use of 3 dimensional masking has **not** been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
8. Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2015
9. Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Maclean Electrical (www.maclean.co.uk) or Marwood Electrical (www.marwoodelectrical.co.uk)
10. Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number.
11. This design has been prepared in accordance with BS5489-1:2013 and the local authority design brief, BS5489-1:2020 has not been used.
12. All columns shall be erected at the back of footway, back of service strip or at 2m set back in verge. Columns on footpaths shall be in the tarmac surface and NOT soft verge. Clearance to drives shall be no closer than 0.5m from drives
13. Luminaires to be complete with a visual reference label for identification purposes taking the form of the the lumen output, e.g. 2290 followed by the dimming letter A, B, C or X
14. Staffordshire CC states, Trees cannot be planted within 3m of a column and within 10m of a column where they are in the same grass verge.

SCC Dimming regimes
(letter shown in column schedule)

- A = light output between the hours 20:00 and 00:00 shall be 75% of max light output and between 00:00 and 06:00 shall be 50% of max light output. Other times 100% output
- T = light output between the hours 19:00 and 07:00 to be 50% of max light output. Other times 100% output
- C = light output between the hours 00:00 and 06:00 shall be 75% of max light output. Other times 100% output
- X = no dimming

For LED lantern dimming - Philips Xitanium driver and integrated dynadimmer gear pre-programmed for stand-alone operation

Key

- Proposed private LED bollard to deliver 1700 lumens with warm white LED, fitted with mini photocell. Design uses Kingfisher Deco LED 20W bollard
- 40
- Existing column. design by others
- Column from previous phase with Holophane Vmax lantern (VMX.2.LA063.V2.F4Q1.W040) at 0° tilt, fitted with 40w neutral white (3000° K) LED, to remain
- 6m column from previous phase with Holophane Vmax lantern (VMX.2.LA023.V1.F4Q1.W012) at 0° tilt, fitted with 12w warm white (3000° K) LED to remain
- Column from previous phase with Holophane Vmax lantern (VMX.2.LA063.V2.F4Q1.W040) at 0° tilt, fitted with 40w neutral white (3000° K) LED, to remain
- 12
- New 6m column with Holophane Vmax lantern (VMX.2.LA023.V1.F4Q1.W012) at 0° tilt, fitted with 12w neutral white (3000° K) LED, Philips Xitanium driver (see note 4) and 7 pin nema socket and photocell cell set to switch on at 35 lux with 2:1 negative switching ratio
- 8
- New 6m column with Holophane Vmax lantern (VMX.2.LR023.V1.F4Q1.W008) at 0° tilt, fitted with 8w warm white (3000° K) LED, Philips Xitanium driver (see note 4) and 7pin nema socket and photocell cell set to switch on at 35 lux with 2:1 negative switching ratio
- 1
- New 6m column with Holophane Vmax lantern (VMX.2.LA033.V1.F4Q1.W016) at 0° tilt, fitted with 16w warm white (3000° K) LED, Philips Xitanium driver (see note 4) and 7pin nema socket and photocell cell set to switch on at 35 lux with 2:1 negative switching ratio
- F1
- Project column number (final numbering to be provided by Staffordshire CC)
- 2.00 lux iso-contour line
- 0.44 lux iso-contour line

REV	DETAILS	APP / DWN	DATE
R	Bollards HB13-17 moved to revised layout	RSS / NWS	12.01.22
Q	Site layout changed	RSS / NWS	12.01.22
P	Site layout updated after replan	RSS / NWS	14.05.21
H	Roads 3 to 8 added to section38. Lighting added. Key and notes updated	RSS / NWS	10.03.21
G	Private lighting updated	RSS / NWS	22.02.21
F	Revised site layout, lighting position adjusted to new coordinates	RSS / NWS	16.09.20
E	Bollard GB1 and GB2 adjusted. Column symbols updated to reflect change in Staffordshire spec	RSS / NWS	26.06.20
D	Section 38 line corrected. columns and grid updated. A5 move across the road, A78 added/ Key updated	RSS / NWS	21.08.19
C	Adopted area changed. Lighting and grids updated to reflect this	RSS / NWS	14.08.19
B	Private lighting updated.	RSS / NWS	27.04.19
A	Adopted lighting revised. Private lighting moved to drawing 02	RSS / NWS	04.04.19

Drawing Number: 2512-D-03
Revision: R

Client: St Modwen Homes

Project: Development at Blythe Bridge, Stoke on Trent

Drawing Title: Proposed Private and Adopted Lighting and Illuminance Layout

Scale at A1: 1-500
Sheet 1 of 1
Drawn: NWS
Date: 06.03.19

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R9051-NSA-19-00-DR-X-0003
Rev R