

Notes

- All new (or altered) lighting columns shall be serviced by electricity company supplies provided by the distribution network operator (DNO) Western Power Distribution.
- The colour and specification of electricity supply service ducts must be confirmed with the operator / service provider prior to commencement of the works.
- The Developer shall be responsible for the managing of hazards prior to and during the construction process. Where risk exists these have been identified in the separate risk assessments.
- All testing shall be in carried out accordance and recorded with BS7671 and DCC specific requirements.
- All equipment shall be supplied and installed in accordance with Derbyshire County Council specification and Highway standard drawing details.
- The developer / contractor shall ensure where columns are located within service strips adequate clearance / space is made available for installation of the pole and the service connection to avoid unnecessary relocation works.
- Symbols on this drawing are completely not to scale and are deliberately partially oversized to make them more visible. New columns shall be positioned in accordance with Derbyshire standard drawing detail HSED11.
- No trees or shrubs shall be planted in a position which will adversely affect either the operational capability or maintenance access of any street light or illuminated sign post, throughout the lifetime of the installation in accordance with highway electrical standard detail HSED13.
- 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.
- In this instance the use of 3 dimensional mapping 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 masting ability will vary with seasonal conditions.
- Isocountours 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 13201-3:2003.
- Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Maclean Electrical (www.maclean.co.uk) or Manwood Electrical (www.manwoodelectrical.co.uk).
- Copies of the original lighting reality calculations available upon request please send a email to msh@nicksmithassociates.com quoting the project number.
- This design has been prepared in accordance with BS5489-1:2013 the use of S/P ratios have been applied.
- The LED driver shall be pre programmed for 100% output between switch on and 21:30, 75% between 21:30 and 00:00, 50% between 00:00 and 05:00, 75% between 05:00 and 06:00, 100% between 06:00 and dawn.

Key

- Proposed tubular steel pole and lower road lighting column finished in Derbyshire Green (RAL6006) of 6m nominal height with post mounted CU Phosco P852 lantern (P852-12-P4-1W-CB0150-11V) at 0.1m with 12 no neutral white LED integral driver and photocell set to switch on at 20 lux with 1:1 switching ratio
- Existing 5m column with Thorn Beta 5 lantern with 35w 60X lamp to remain
- Existing 5m column with CU Phosco P852 lantern (P852-12-STD-1W-CB050-29V) to remain
- Proposed tubular steel road lighting column finished in Derbyshire Green (RAL6006) of 6m nominal height with post mounted CU Phosco P852 lantern (P852-12-R2B-1W-CB0100-13V) at 0.1m with 12 no neutral white LED integral driver and photocell set to switch on at 20 lux with 1:1 switching ratio (see note 15). As per DCC Street Lighting Specification and Highway Electrical Standard Details, HSED09, HSED10, HSED11, HSED14, HSED18; for columns on D1/D10/D10 supply

DHO44 New DHO supply

Project column number

- 2.00 lux iso-contour line at ground level
- 0.40 lux iso-contour line at ground level
- P852 Lantern 12w F02 Switching Regime 606 with M40-L level Static Dimming 20-20 with 2037 burning hours
- Elcon Code 42 013 0000 1000

BOLLARD LIGHTS WIRED TO PLOTS

B	DCC numbering and drawing number added, changes to column outside plot 20, Section 218 lighting changed	RSS NWS	18.06.19
A	Private lighting added to sheet 2	RSS NWS	12.06.19
REV	DETAILS	APB DYN	DATE

DCC Drawing Number

NSA Drawing Number	Revision
2541-D-00	SK 1

Client Cameron Homes

Project Milton Road, Repton, Derbyshire

Drawing Title Proposed private and adopted Lighting and Illuminance Layout

Scale at A1 1:500	Sheet 2 of 2
Drawn NWS	Date 05.06.2019

Nick Smith Associates Ltd



Tel: 01246 229444
Fax: 01246 270465
mail@nicksmithassociates.com
www.nicksmithassociates.com

Comparable Level of Lighting Classes from EN13201-2:2015											
Class	1	2	3	4	5	6	7	8	9	10	11
1	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
2	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0
3	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
4	18.0	22.5	27.0	31.5	36.0	40.5	45.0	49.5	54.0	58.5	63.0
5	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
6	30.0	37.5	45.0	52.5	60.0	67.5	75.0	82.5	90.0	97.5	105.0
7	36.0	45.0	54.0	63.0	72.0	81.0	90.0	99.0	108.0	117.0	126.0
8	42.0	52.5	63.0	73.5	84.0	94.5	105.0	115.5	126.0	136.5	147.0
9	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0
10	54.0	67.5	81.0	94.5	108.0	121.5	135.0	148.5	162.0	175.5	189.0
11	60.0	75.0	90.0	105.0	120.0	135.0	150.0	165.0	180.0	195.0	210.0

S38 Results - Horizontal Illuminance (lx)
Eave 3.40
Emin 0.57
Emax 11.69
Emin/Eave 0.05
Emin/Eave 0.17

Luminaire Data
Luminaire A P852-12-R2B-1W-CB0100-13W Lamp 740C 1WV MF 0.83
Luminaire E P852-12-STD-1W-CB050-29W Lamp 740P 1WV MF 0.83
Luminaire F QB581035.4 Lamp 35W SOX MF 0.83

Key
● Luminaire A Column
● Luminaire E Column
● Luminaire F Column

Private Column Number	POSITION OF COLUMN		COL. ROT'N
	X	Y	
P1	430976.59	326942.39	105

DCC Maintenance Number	POSITION OF COLUMN		COL. ROT'N
	X	Y	
91050	431040.09	326897.84	108
91051	431053.80	326934.98	288
91052	431036.14	326956.91	9
91053	431004.92	326971.58	191
91054	430988.89	326987.23	99
91055	430998.94	327021.22	259
91056	430992.35	327039.53	170

