

# GENERAL NOTES

- another.
- immediately.

### NOTES

- assessment. buildings, trees, etc.
- being considered is in the same plane, i.e. there are no changes in gradient or elevation.
- constraints subject to designers approval. or site engineer immediately.
- associated with the connection and disconnection of street lighting equipment.
- installation.
- for any appointed IDNO.
- prevent any future access or maintenance.
- future growth may inhibit lighting levels.

- street lighting equipment. 19. The developer will be responsible, unconditionally, for the
- adoption of the street lighting equipment.
- STATUTORY SERVICE NOTES
- located and reported.
- further guidance. and Safety Executive regulations.
- undertaker.
- programme
- LIGHTING CLASSIFICATION

Minimum average illuminance (Eav): >3.00 lux <4.50 lux Minimum illuminance (Emin): >0.60 lux Lighting Uniformity (Emin/Eav): >0.20 (>20%)

organisation.

1:25Ø

netres

1. Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one

2. In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified

3. SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced. 4. This lighting 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.

1. All works are to be carried out in accordance with the current Cumberland Council street lighting design specification. 2. The information on this drawing does not account for installation considerations, site conditions or provide any form of risk

3. No account is taken for the blocking effect caused by

4. The calculation shown by this drawing assumes that the whole area

5. Column positions indicated upon this drawing may change without

prior or additional notice due to local site or environmental 6. Any inaccuracies are to be reported to the overseeing organisation

7. The contractor shall liaise with the Distribution Network Operator in relation to the programming and coordination of any works

8. The use of Independent Distribution Network Operator's (IDNO's) is permitted. Any chosen IDNO shall have a Service Level Agreement in place with Cumberland Council prior to adoption of the new

9. The contractor shall provide Cumberland Council street lighting department with the name, address and emergency contact details

10. IDNO contact details shall also be stored inside the base compartment of each lighting column via means of an identification

11. Any existing trees are to be cutback, removed or relocated elsewhere to avoid interference with the street lighting luminaire or

12. The planting of trees near to lighting columns is to be avoided as

13. Horizontal clearance for the maximum tree canopy shall be greater than 5m from any proposed lighting columns. 14. Final lighting column identification numbers shall be agreed with the

Cumberland Council street lighting engineer. 15. The Contractor shall provide the Cumberland Council with as-built drawings, test certificates and column and lantern data sheets in accordance with Cumberland Council street lighting specification.

16. Lighting column foundations shall be designed in accordance with the manufacturer data sheets for the columns and soil types present (see also Cumberland Council street lighting specification). 17. The minimum distance for a lighting column to be erected from the

kerb face in a service strip shall be 1.0 metres. 18. The developer will be required to pay any energy liability charges

with their electricity supplier until the date of formal adoption of the

condition,operation and any risk or liability of all the highways electrical equipment on all approved works until the date of formal

1. Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.

2. It should be assumed by the contractor that not all services have been identified during the design period. It is the responsibility of the contractor to ensure that all unidentified services are carefully

3. The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for

4. Installation and Removal works should be carried out in accordance with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health

All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6 "Avoidance of danger from overhead power lines"

All works in the vicinity of underground mains or cables shall conform to the requirements of Health and Safety Executive, Health and Safety Guidance HGS47 "Avoiding danger from underground services" and any additional requirements specified by the relevant

The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works

This lighting design has been produced in accordance with : BS 5489-1:2020, CEN/TR 13201-1:2014 & BS EN 13201-2:2015 outdoor lighting documents and guidelines.

Lighting classification: P5 (BS 5489-1:2020,Table A.5)

The details provided on this drawing are subject to comments by all the relevant approving authorities or overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority or overseeing

It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.

Qty 2	Proposed galvanised heavy duty steel lighting column of 6.0 metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.				
	Column Reference:	8917 PT			
	Luminaire Type:	Thorn Isaro Pro Small 12LED 350mA EWR			
	Mounting Type:	Post top mounted at 0° tilt			
	Lumen Output:	1.87klm			
	Charge Code:	42 0015 0000 100			
	Luminaire Wattage:	15w			
	Colour Temperature:	Warm White			
	Luminous Intensity:	G3			
	Control Gear:	DALI enabled driver			
	Control Type:	Lucy Zodion SS9 5lux (1:1 ratio) PECU mounted in 7 pin NEMA socket			
	Dimming Profile:	Adaptive NightTune Dusk until 21:00: 100% output 2700k 21:00 until 00:00: 50% output 2400k 00:00 until 05:00: 50% output 2200k 05:00 until 06:00: 50% output 2400k 06:00 until Dawn: 100% output 2700k			
	Supply:	DNO electrical supply connection			
	Primary Isolator:	DNO approved double pole isolator			
	Secondary Isolator:	Fofco F144DP isolator			
Internal Wiring:		Cable between cut-out and luminaire shall be 1.5mm <sup>2</sup> flexible 'artic' cable			
	Door Orientation:	Perpendicular to kerb facing away from oncoming vehicles			
•	Private lighting column				
	UNIT IDENTIFICATION KEY:				
LC**	Proposed lighting column identification number				
	ELECTRICAL CONNECTION TYPE:				
DNO	Distribution network operator connection				
	ISOLUX CONTOUR KEY (AT GROUND LEVEL):				
$\sim$	<ul> <li>0.20 Isolux contour line</li> <li>0.60 Isolux contour line</li> </ul>				
$\sim$					
$\sim$	1.00 Isolux contour line				
$\sim$	2.00 Isolux contour line				

R1 NEW LAYOUT 21/01/2025					025 SRH			
R0	INITIA	DESIGN FOR REVIE	13/09/2	024 SRH				
REV	DESC	RIPTION	DATI	E BY				
© info@shdlighting.co.uk  ☐ 07834 490 192								
DRAV	VING:	S278 STREET LIGHTING DESIGN						
CLIE	CLIENT: ABCUMBRIA							
		SHD1719 -SHD-HLC	G-DALZ-DR-EO-Lighting Layout-R1	DRAWN:	SRH			
DRAV NUM	NING BER:			CHECKED:	SRH			

## **PRELIMINARY DESIGN - NOT FOR CONSTRUCTION**

DATE:

13/09/20

APPROVED:

SCALE @ A1 1:250

REVISION: R1

SHEET 1 OF 1

SHD1719

CONTRACT NUMBER: