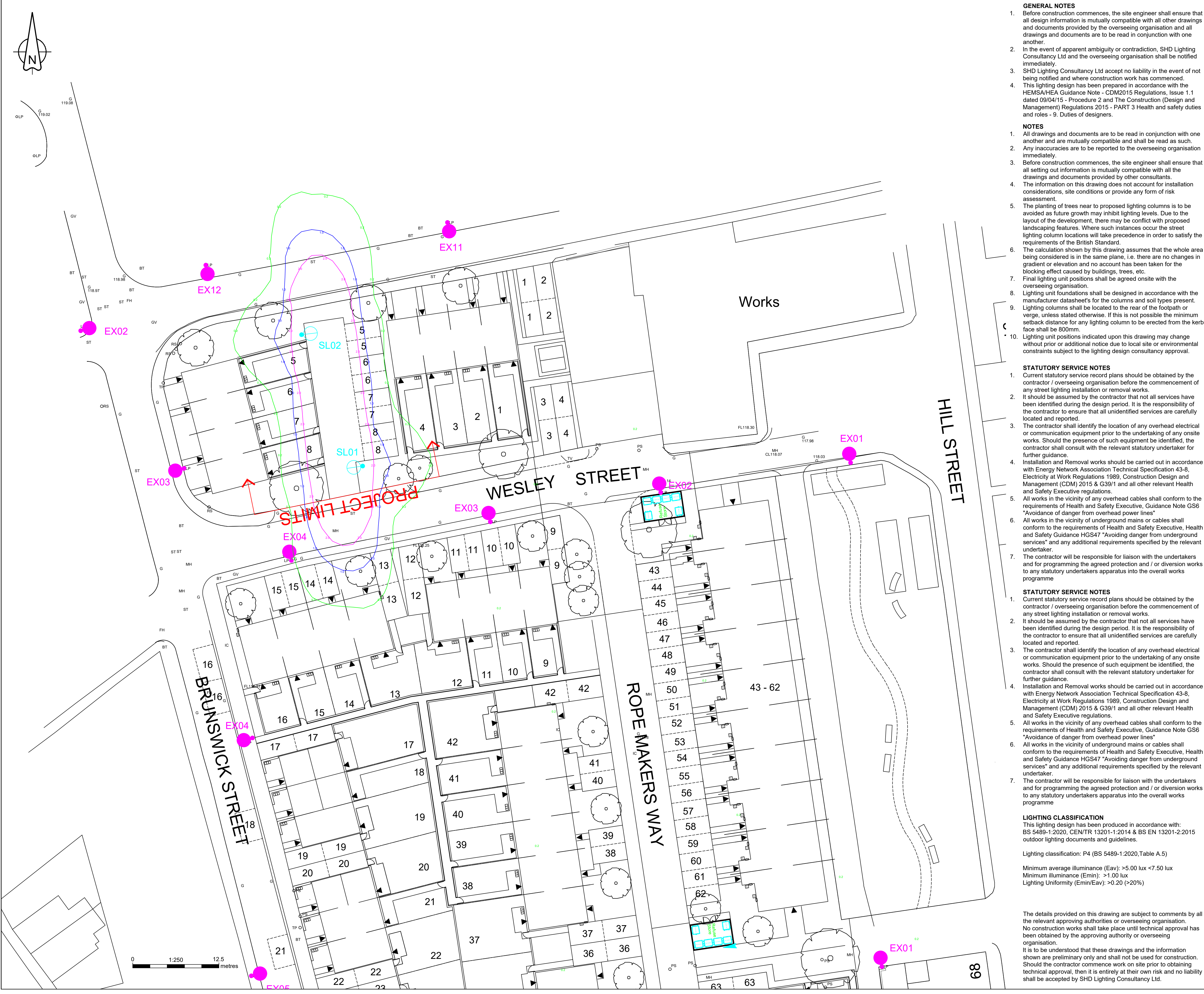




- GENERAL NOTES**
- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
 - In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
 - SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
 - 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.

- NOTES**
- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such.
 - Any inaccuracies are to be reported to the overseeing organisation immediately.
 - Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by other consultants.
 - The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
 - The planting of trees near to proposed lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the development, there may be conflict with proposed landscaping features. Where such instances occur the street lighting column locations will take precedence in order to satisfy the requirements of the British Standard.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation and no account has been taken for the blocking effect caused by buildings, trees, etc.
 - Final lighting unit positions shall be agreed onsite with the overseeing organisation.
 - Lighting unit foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
 - Lighting columns shall be located to the rear of the footpath or verge, unless stated otherwise. If this is not possible the minimum setback distance for any lighting column to be erected from the kerb face shall be 800mm.
 - Lighting unit positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to the lighting design consultancy approval.

- STATUTORY SERVICE NOTES**
- Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
 - 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 located and reported.
 - 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 further guidance.
 - 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 and Safety Executive regulations.
 - 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 undertaker.
 - 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 programme

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LIGHTING CLASSIFICATION
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: P4 (BS 5489-1:2020, Table A.5)

Minimum average illuminance (Eav): >5.00 lux <7.50 lux
Minimum illuminance (Emin): >1.00 lux
Lighting Uniformity (Emin/Eav): >0.20 (>20%)

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 organisation.
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.

Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base with glass flake root protection supplied by Mallatite, CU Phosco, Valmont Stainton, Fabrikat or similar. Column to be manufactured to: EN 40, BS EN 1461 & BS 5649 standard and supplied in factory applied black (RAL 9005) paint finish.	
Luminaire:	Acrospire Defender (Black finish)
Mounting Type:	Post top mounted
Manufacturer Ref:	GFS Defender 8w T3
Lumen Output:	1.34klm
Luminaire Wattage:	8w
Colour Temperature:	Warm White (3000k)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G3
Control Gear:	Integral driver
Control Type:	TWIN (2x) Panasonic PIR Sensors (L R Mount) 15m detection zone
	Activates for 30 sec
Supply:	Custom multiple ON / OFF options per night with ability to set ON hours, before sunrise and dimming function.
	None required

Existing lighting column and luminaire.

UNIT IDENTIFICATION KEY:
SL** Proposed solar lighting column identification number

ISOLUX CONTOUR KEY (AT GROUND LEVEL):
0.20 Isolux contour line
1.00 Isolux contour line
2.00 Isolux contour line



Example image: Acrospire Defender solar luminaire



Optional side mounted solar panel and bracket. Additional south facing solar panels will ensure optimum battery levels are maintained.

It is recommended that a cleaning regime is set up with the solar panels being cleaned annually.

RO	INITIAL DESIGN FOR REVIEW AND COMMENT	01/03/2024	SRH
REV	DESCRIPTION	DATE	BY
SHD			
info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk			
SCHEME:	OFF BRUNSWICK STREET, HEYWOOD		
DRAWING:	PRIVATE SOLAR LIGHTING DESIGN		
CLIENT:	WESTCHURCH HOMES		
DRAWING NUMBER:	SHD1398-SHD-HG-BRUN-BR-RED-Lighting Layout R0	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD1398	APPROVED:	
	DATE: 01/03/2024	SCALE @ A1	1:250
REVISION: R0			
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			