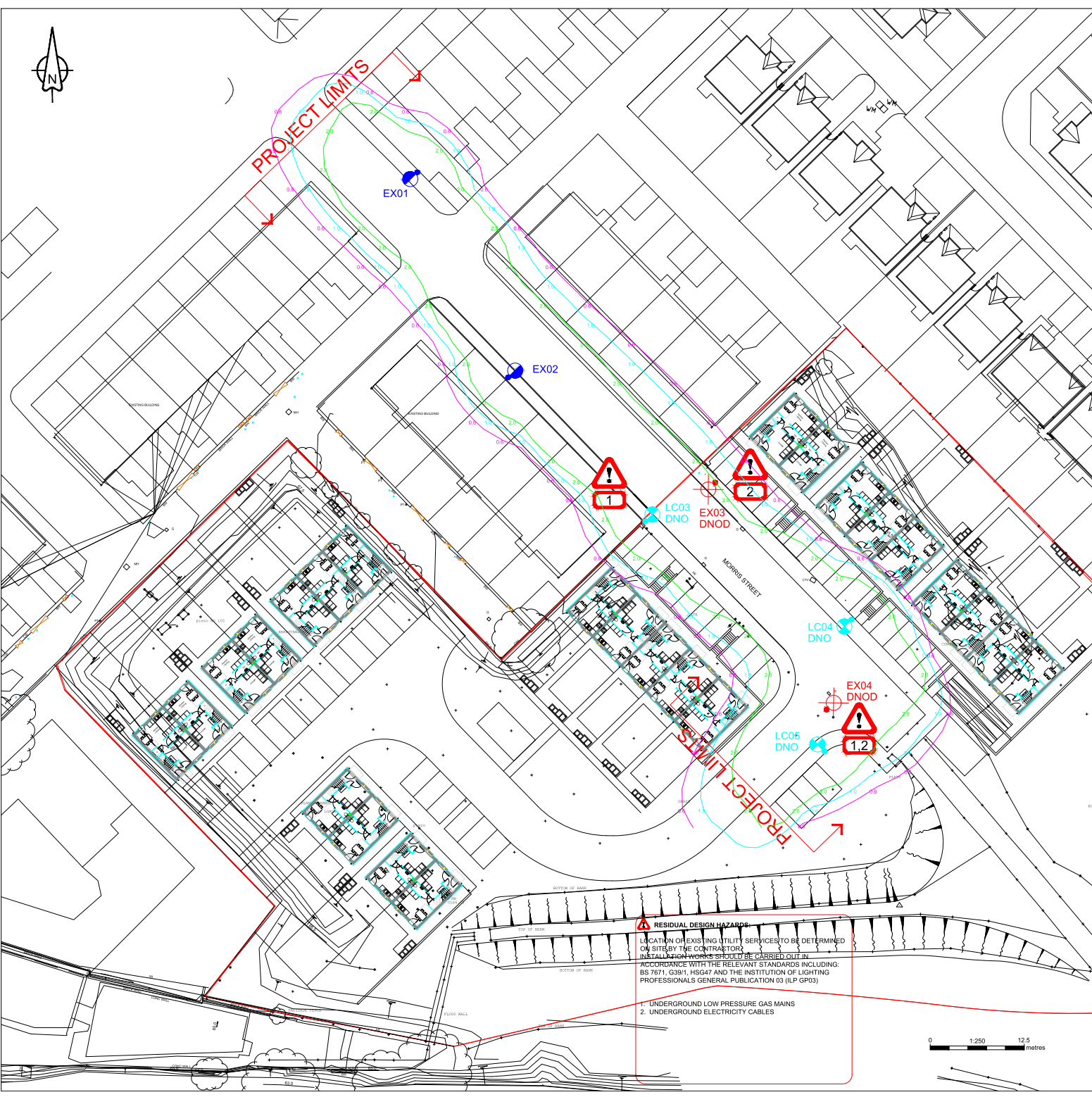




- GENERAL NOTES**
- All documents shall be checked to ensure they are compatible by the contractor before construction commences. In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
 - SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced. 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 overseeing organisation and all drawings and documents are to be read in conjunction with one another.
 - 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.
 - Current statutory service record plans should be obtained by the contractor / overseeing organisation before commencement of any street lighting installation or removal works.
 - All services are to be located and identified prior to installing or removing any lighting columns. All works should be carried out in accordance with HSE GS6, ENA 43-6, HSE HGS47, G39/1 and all relevant HSE regulations

- NOTES**
- All works are to be carried out in accordance with the latest Bury Metropolitan Borough Council street lighting design specification.
 - Any inaccuracies are to be reported to the overseeing organisation or site engineer immediately.
 - The contractor shall liaise with the DNO in relation to the programming and coordination of any works associated with the connection and disconnection of street lighting equipment.
 - 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 not damaged.
 - 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.
 - Final lighting column positions shall be agreed onsite with the Bury Metropolitan Borough Council street lighting engineer.
 - Final lighting column identification numbers shall be agreed with Bury Metropolitan Borough Council street lighting engineer.
 - The contractor shall provide Bury Metropolitan Borough Council with as-built drawings, test certificates and column and lantern data sheets in accordance with the latest Bury Metropolitan Borough Council street lighting specification.
 - Lighting column foundations shall be designed in accordance with the manufacturer datasheet for the columns and soil types present.
 - The minimum distance for a lighting column to be erected from the kerb face shall be 1000mm.

- 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.
 - All services are to be located and identified prior to installing or removing any lighting columns. Installation and Removal works should be carried out in accordance with ENA TS 43-6, EAWR 1989, CDM 2015 & G39/1 and all other relevant HSE regulations.
 - All works in the vicinity of any overhead cables shall conform to the requirements of HSE guidance note GS6 "avoidance of danger from overhead lines".
 - All works in the vicinity of underground mains or cables shall conform to the requirements of HSE guidance note 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

LIGHTING CLASSIFICATION

This lighting design has been produced in accordance with current: 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)

Required lighting levels:
Minimum maintained average illuminance (Eav): >3.00 lux <4.50 lux
Minimum illuminance (Emin): >0.60 lux
Emin/Eav (uniformity): >0.20 (>20%)

RESIDUAL DESIGN HAZARDS:

LOCATION OF EXISTING UTILITY SERVICES TO BE DETERMINED ON SITE BY THE CONTRACTOR.

INSTALLATION WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS INCLUDING: BS 7671, G39/1, HGS47 AND THE INSTITUTION OF LIGHTING PROFESSIONALS' GENERAL PUBLICATION 03 (ILP GP03)

- UNDERGROUND LOW PRESSURE GAS MAINS
- UNDERGROUND ELECTRICITY CABLES

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.

Lighting Column:

Proposed galvanised tubular steel lighting column of 5.0 metre nominal height with a planted base as supplied by Malleite to Bury Metropolitan Council Street Lighting Specification.

Column Reference: 0105MDPT

Luminaire Type: Philips Digistreet Micro luminaire

Luminaire Reference: BGP760 DW50 6000, 20LED 5.1S CLO L90 NW

Mounting Type: Post top mounted

Luminaire Tilt: 5°

Lumen Output: 6,000 klm

Charge Code: 42 0036 0000 100

Luminaire Wattage: 36 w

Colour Temperature: Neutral White (4000K)

Luminous Intensity: G2

Control Gear: Philips Citytouch CMS

Control Type: Lucy Zodion SS3 35lux (1:0.5 ratio)

Dimming Profile: Dimmed to 50% lumen output

Supply: DNO

Primary Isolator: DNO approved isolator

Secondary Isolator: N/A

Internal Wiring: Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable.

Door Orientation: Main Road - Perpendicular to kerb
Side Road - Facing road

Lighting Column:

Existing 5m galvanised tubular steel lighting column to remain. Existing luminaire to be removed and replaced with post top mounted Philips Digistreet

Column Reference: N/A

Luminaire Type: Philips Digistreet Micro luminaire

Luminaire Reference: BGP760 DW50 6000, 20LED 5.1S CLO L90 NW

Mounting Type: Post top mounted

Luminaire Tilt: 5°

Lumen Output: 6,000 klm

Charge Code: 42 0036 0000 100

Luminaire Wattage: 36 w

Colour Temperature: Neutral White (4000K)

Luminous Intensity: G2

Control Gear: Philips Citytouch CMS

Control Type: Lucy Zodion SS3 35lux (1:0.5 ratio)

Dimming Profile: Dimmed to 50% lumen output

Supply: N/A

Primary Isolator: N/A

Secondary Isolator: N/A

Internal Wiring: Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable.

Door Orientation: N/A

Uproot and dispose at recycling facility existing lighting column. Existing luminaire to be handed back to Bury Council for reuse on maintenance.

UNIT IDENTIFICATION KEY:

LC** Proposed lighting column identification number

EX** Existing lighting column identification number

ELECTRICAL CONNECTION TYPE:

DNOD Disconnect existing DNO supply connection

DNO Proposed DNO supply connection

ISOLUX CONTOUR KEY:

0.60 Isolux contour line

1.00 Isolux contour line

2.00 Isolux contour line

R1	ADDED EX01 & EX02 INTO DESIGN, AFTER LA COMMENTS	10/11/2021	BRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	10/10/2021	BRH
REV	DESCRIPTION	DATE	BY

SHD

OUTDOOR LIGHTING CONSULTANCY

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07834 490 192

www.shdlighting.co.uk

SCHEME:	MORRIS STREET, RADCLIFFE
DRAWING:	S278 STREET LIGHTING DESIGN
CLIENT:	WATSON HOMES
DRAWING NUMBER:	SHD378-SHD-HLG-MORRIS-DR-EO-Design Layout
CONTRACT NUMBER:	SHD379
DATE:	10/10/2021
REVISION:	R1

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

