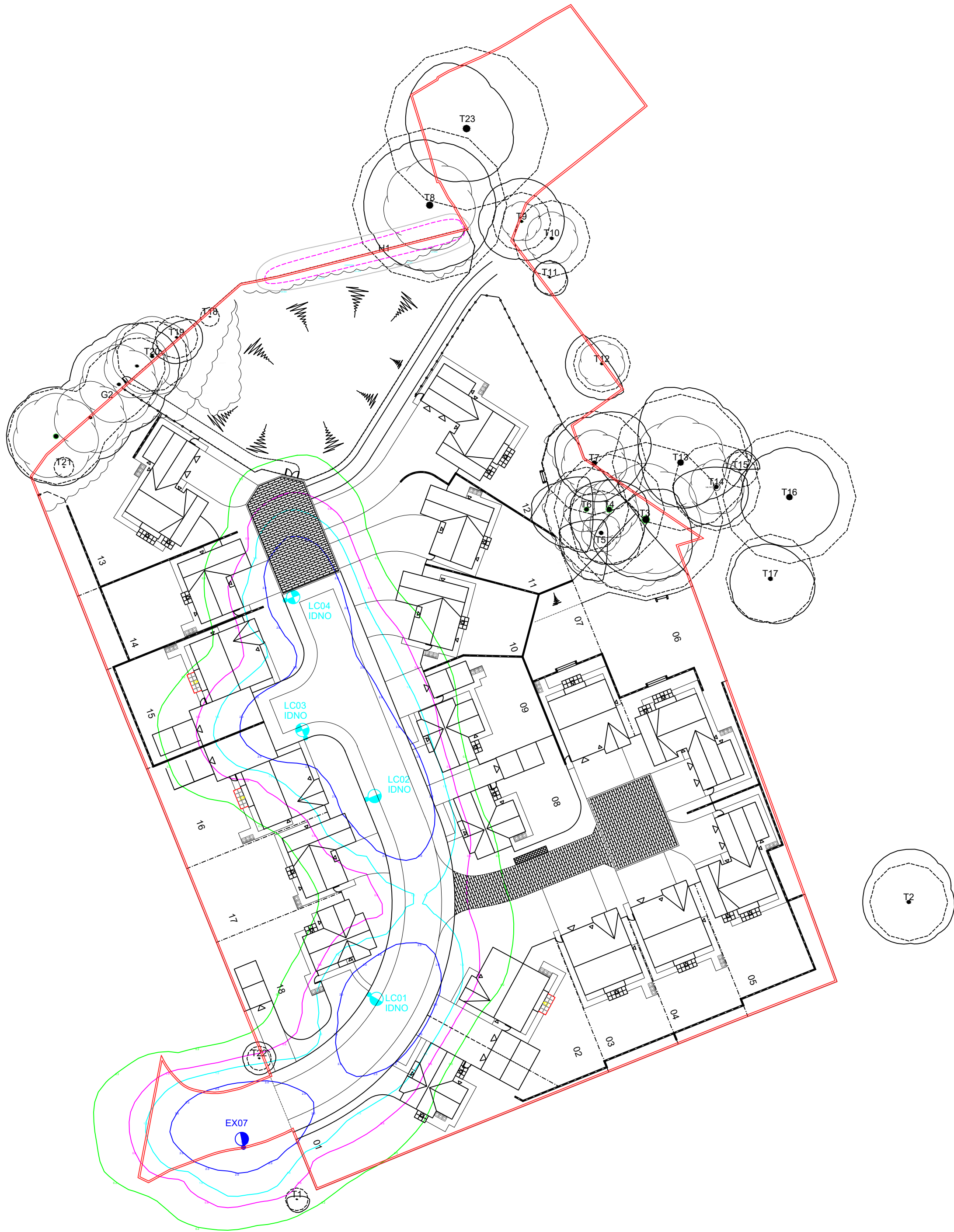
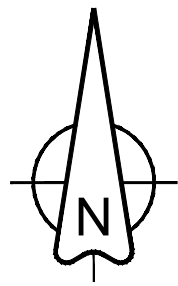




GENERAL NOTES

- 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.

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 43-3, 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

NOTES

- All works are to be carried out in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- Any inaccuracies are to be reported to the overseeing organisation or site engineer immediately.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- No account is taken for the blocking effect caused by buildings, trees, etc.
- 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.
- Final lighting column positions shall be agreed onsite with the Oldham and Rochdale street lighting representative.
- Final lighting column identification numbers shall be agreed with the Oldham and Rochdale street lighting representative.
- Lighting column foundations shall be designed in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale' and the manufacturer datasheet's for the columns, soil types and environmental conditions present.
- All new lighting units shall integrate within the existing Oldham & Rochdale central management system (CMS) network and be a stand alone fully operable and prior to adoption shall be proven and witnessed to be fully working.
- Each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
- The contractor shall provide the Oldham and Rochdale street lighting representative with as-built drawings, test certificates and column and luminaire data sheets and details of all CMS node reference in accordance with the latest 'the specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- The contractor shall keep and provide accurate records to the Oldham and Rochdale street lighting representative and service provider in relation to the identification numbers associated with all central management system control equipment in accordance with the latest 'The specification for road lighting, illuminated traffic signs and bollards in Oldham & Rochdale'.
- There shall be a requirement for one lantern to have the capability of mounting a Harvard (Lucy Zodion) branch node via 20mm dia hole in the lantern's canopy, using a NEMA socket replacement kit for the 20mm dia hole, and plugging into the DALI driver via a Vizion/DALI interface control unit.
- Electrical installation work shall be carried out in accordance with the requirements of the latest edition of the IET wiring regulations, BS 7671
- Proposed lighting columns shall be installed to the back edge of the proposed footway construction within adopted highway and shall not obscure property windows/doors or private access/driveways.
- The minimum distance for a lighting column to be erected from the kerb face in a service strip shall be 1000mm
- The developer will be required to pay any energy liability charges with their electricity supplier until the date of formal adoption of the development.
- The developer will be responsible, unconditionally, for the condition, operation and any risk or liability of all the highways electrical equipment on all approved Section 38 agreement works until the date of formal adoption of the development.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the lighting will take precedence in order to satisfy the requirements of the British standard.

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

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

Qty 2	Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base and glass flake root protection as supplied by Valmont Stainton to Oldham & Rochdale Borough Council Street Lighting Specification.
Column Reference:	1B0601METR10GR Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Luminaire:	Post top mounted
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LR023.V1.F4Q1.W010
Luminaire Order Ref:	VMX.2.LR023.V1.F4Q1.W010.PT1.T7.T.LRD.CL8
Lumen Output:	1.38 klm
Charge Code:	42 0010 0000 100
Luminaire wattage:	10 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Zodion Vizion Central Management System 5 pin UniNode 3 mounted in 7 pin NEMA socket
Dimming Profile:	CMS controlled
Supply:	IDNO electrical supply connection
Primary Isolator:	IDNO approved TOFCO double pole cut-out. Installed through 38mm red elbow duct. (ENW approved spec.)
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	Facing road

Qty 2	Proposed galvanised tubular steel lighting column of 6.0 metre nominal height with a planted base and glass flake root protection as supplied by Valmont Stainton to Oldham & Rochdale Borough Council Street Lighting Specification.
Column Reference:	1B0601METR10GR Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Luminaire:	Post top mounted
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LA023.V1.F4Q1.W013
Luminaire Order Ref:	VMX.2.LA023.V1.F4Q1.W013.PT1.T7.T.LRD.CL8
Lumen Output:	1.82 klm
Charge Code:	42 0013 0000 100
Luminaire wattage:	13 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Zodion Vizion Central Management System 5 pin UniNode 3 mounted in 7 pin NEMA socket
Dimming Profile:	CMS controlled
Supply:	IDNO electrical supply connection
Primary Isolator:	IDNO approved TOFCO double pole cut-out. Installed through 38mm red elbow duct. (ENW approved spec.)
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	Facing road

Qty 1
Remove existing luminaire and hand back to Rochdale Metropolitan Borough Council for reuse or recycling and replace with post top mounted Holophane VMAX.

Column Reference:	Existing to remain
Luminaire:	Holophane V-max with LM6 aluminium body and canopy with each lantern shall have a visible sticker, stating the wattage and lumen output, provided by the manufacturer at the time of order.
Mounting Type:	Post top mounted
Manufacturer Ref:	VMX.2.LA023.V1.F4Q1.W013
Luminaire Order Ref:	VMX.2.LA023.V1.F4Q1.W013.PT1.T7.T.LRD.CL8
Lumen Output:	1.82 klm
Charge Code:	42 0013 0000 100
Luminaire wattage:	13 w
Colour Temperature:	3000k (Warm White)
Luminaire Tilt Inclination:	0°
Luminous Intensity:	G4
Control Gear:	Philips Xitanium dimmable DALI enabled driver
Control Type:	Lucy Zodion Vizion Central Management System 5 pin UniNode 3 mounted in 7 pin NEMA socket
Dimming Profile:	CMS controlled
Supply:	Existing to remain
Primary Isolator:	N/A
Secondary Isolator:	N/A
Internal Wiring:	Internal wiring to luminaire shall be 3 core 1.5mm² PVC insulated flexible cable to BS 6004 and 300/500v grade
Door Orientation:	N/A

R1	DEVELOPMENT LAYOUT CHANGE 18/04/2023	18/04/2023	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	21/02/2023	SRH
REV	DESCRIPTION	DATE	BY



info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk

SCHEME:	OFF CROMPTON AVENUE, ROCHDALE		
DRAWING:	S38 STREET LIGHTING DESIGN		
CLIENT:	BROOKHOUSE GROUP		
DRAWING NUMBER:	SHD898-SHD-HQ-CROM-DR-ED- Lighting Layout R1	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD898	APPROVED:	
	DATE: 21/03/2023	SCALE @ A1:	1:500
		REVISION:	R1
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			

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.

