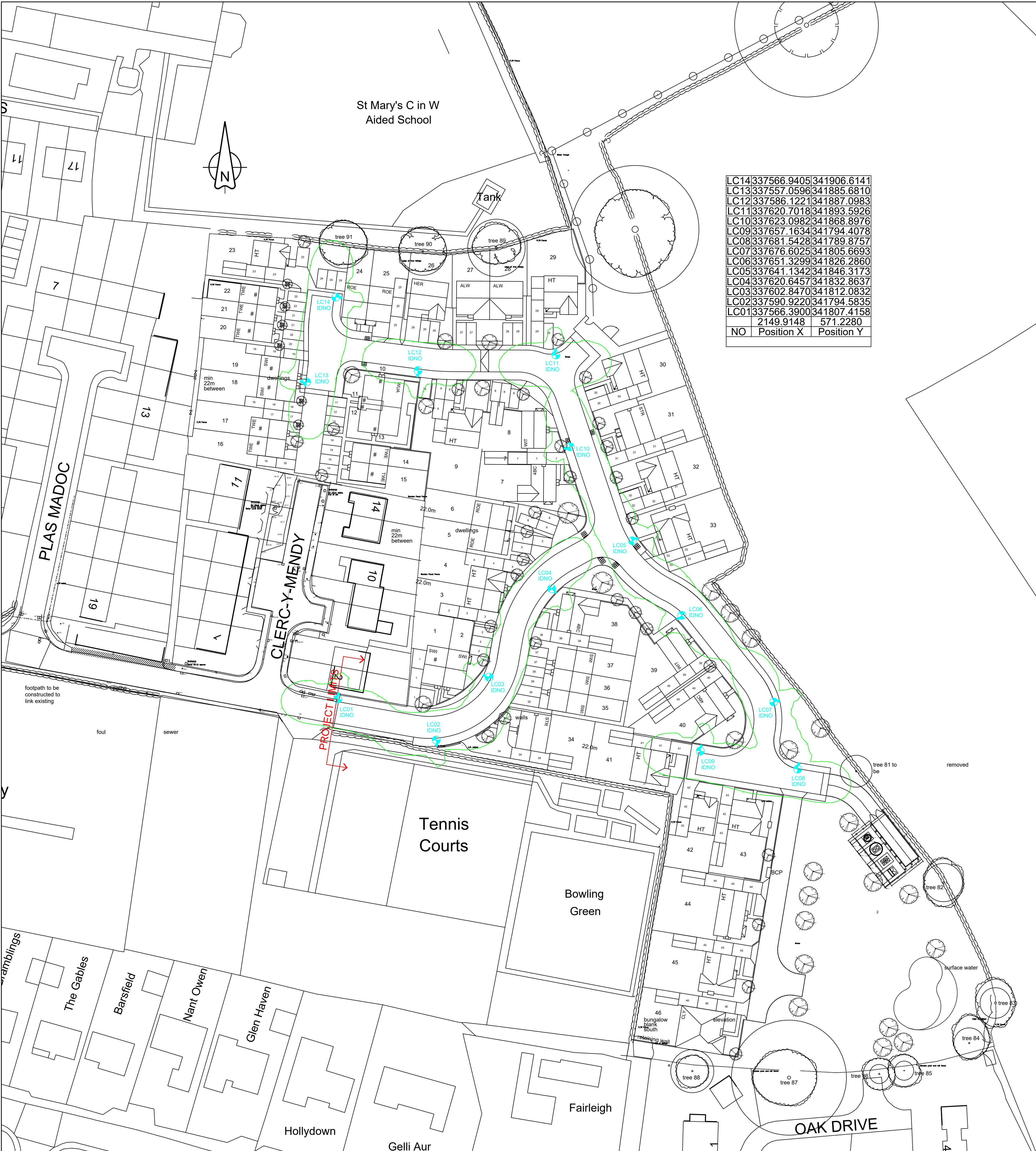




- GENERAL NOTES**
- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
 - In the event 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 street lighting layouts and equipment specifications on new housing developments will require approval from Wrexham County Borough Council prior to acceptance as part of an agreement to adopt a road as public highway.
 - All new lighting equipment to be installed in accordance with the current Wrexham County Borough Council street lighting design guide and specification.
 - 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.
 - Column positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers approval.
 - 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 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.
 - Final lighting column positions shall be agreed onsite with the Wrexham County Borough Council street lighting engineer.
 - Final lighting column identification numbers shall be agreed with the Wrexham County Borough Council street lighting engineer.
 - The contractor shall provide Wrexham County Borough Council with as-built drawings, test certificates and column and lantern data sheets in accordance with the current Wrexham County Borough Council street lighting guide and specification.
 - Lighting column foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
 - The minimum distance for a lighting column to be erected from the kerb face in a service strip shall be 800mm.
 - 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.
 - Where lighting columns are sited in shared surfaces or soft verge etc, a suitable maintenance build out shall be provided to the satisfaction of Wrexham County Borough Council.

- 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

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)

Minimum average illuminance (Eav): >3.00 lux <4.50 lux
Minimum illuminance (Emin): >0.60 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 as supplied by CU Phosco or similar approved manufacturer and in accordance with Wrexham County Borough Council design guide and specification.

Luminaire Type:	Vision Illumination, complete with rear shield
Luminaire Reference:	Valiant LKD-VAL-95050SP
Mounting Type:	Post top mounted
Luminaire Tilt:	0°
Lumen Output:	1.47klm
Charge Code:	42 0009 0000 100
Luminaire Wattage:	9w
Colour Temperature:	Warm White (2700k)
Luminous Intensity:	G2
Control Gear:	DALI enabled driver
Control Type:	Royce Thompson Oasis 1000 One part photocell 35lux (ratio 1:0.5) mounted in 7 pin NEMA socket
Dimming Profile:	N/A
Supply:	IDNO
Primary Isolator:	IDNO approved double pole isolator
Secondary Isolator:	Tofoco F144DP lockable double pole isolator incorporating a 32A DP switch and BS 88-2 6A HRC fuse
Internal Wiring:	Internal wiring to luminaire shall be 1.5mm² PVC insulated flexible cable
Door Orientation:	Perpendicular to kerb facing away from oncoming vehicles

UNIT IDENTIFICATION KEY:
LC** Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE:
IDNO Independent distribution network operator connection

ISOLUX CONTOUR KEY (ILP GN08 COMPLIANT):
0.50 Isolux contour line



EXAMPLES OF REAR SHIELD OPTIONS.
MANUFACTURER VARIANT MAY DIFFER IN STYLE AND FIXING METHOD

Luminaires use a warm white (2700K) colour temperature LED light source with reduced blue light output and mounted at 0° to the horizontal plane as per recommendations in Guidance Note 08 (Bats and Artificial Lighting in the UK) as published by The Institution of Lighting Professionals and Bat Conservation Trust.

Horizontal illuminance (contours indicate projected lux values at ground level, excluding the screening effect of rear louvres, buildings, trees, hedges, etc.)

All luminaires are to be pre installed with manufacturers fitted back shields to reduce rear light spill.

Isolux contour lines shown do not factor the installed rear shield.

R1	MOVED COLUMNS, ADDED SHIELD, CHANGED LED CCT	11/02/2025	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	06/12/2023	SRH
REV	DESCRIPTION	DATE	BY

SHD info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk			
SCHEME:	ST MARYS AVENUE, WREXHAM		
DRAWING:	S38 STREET LIGHTING DESIGN		
CLIENT:	PICKSTOCK HOMES		
DRAWING NUMBER:	SHD1284-SHD-HLS-MARY-DRE-Edg-Lighting Layout-R1	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD1284	DATE:	06/12/2023
		SCALE @ A1:	1:500
		REVISION:	R1
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			