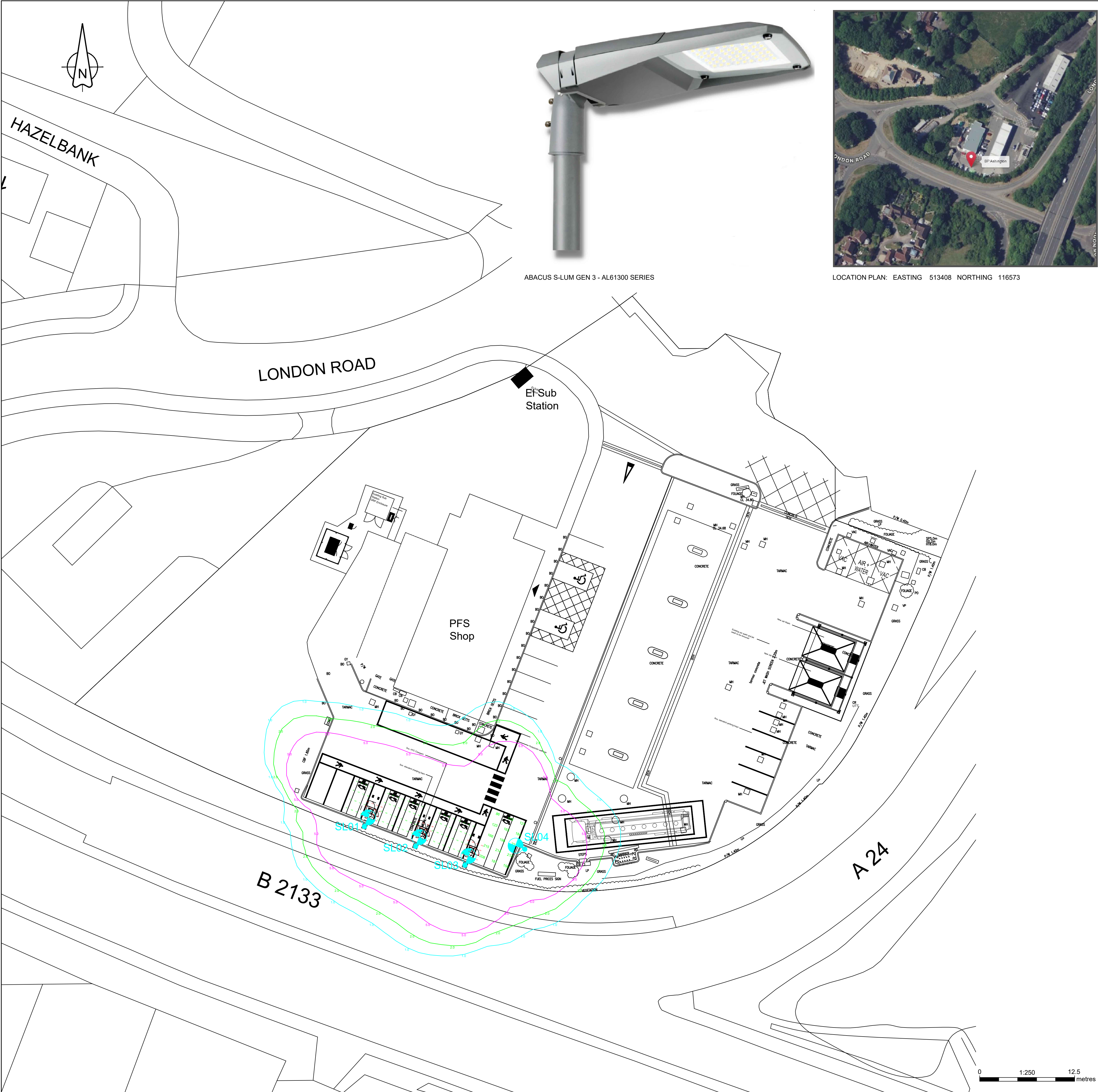




- GENERAL NOTES**
- The site engineer shall ensure that all drawings and associated documentation are fully coordinated and consistent prior to the commencement of any works.
 - All design documents shall be read in conjunction with one another.
 - Any discrepancies, ambiguities, or conflicts identified shall be reported immediately to SHD Lighting Consultancy Ltd and the overseeing organisation.
 - SHD Lighting Consultancy Ltd accepts no responsibility for construction errors or omissions resulting from unreported design issues once works have commenced.
 - No substitutions of luminaires, drivers, optics, or control equipment shall be made without approval from SHD Lighting Consultancy Ltd. Unapproved substitutions may invalidate compliance with lighting standards and design intent.
- NOTES**
- The information on this drawing does not account for installation considerations, site conditions or provide any risk assessment.
 - This lighting design is based solely on information provided at the time of production.
 - Any changes to site layout, levels, landscaping, building positions or surface finishes may invalidate the results and shall require reassessment.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane.
 - No account has been taken for the blocking effect caused by buildings, trees, or other obstructions.
 - All calculations are indicative and assume correct installation, aiming and commissioning of luminaires by a competent contractor.
 - No allowance has been made for future changes in land use, vegetation growth or additional structures that may alter light spill or obtrusive light performance.
 - All photometric data used is assumed accurate as supplied by the manufacturer. The designer accepts no liability for changes to product performance after the date of design.
 - All drawings and calculations are valid only for the revision shown. Any change of site plans or product data will require recalculation.
 - The site engineer shall ensure that all setting out information is mutually compatible with all drawings and documents provided by any other designer with any inaccuracies to be reported to the overseeing organisation immediately.
 - Final lighting unit positions must be agreed onsite with the overseeing organisation.
 - Lighting unit positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints, subject to designer approval.
 - The planting of trees near to lighting units is to be avoided as future growth may inhibit lighting levels.
 - Where wildlife or ecology constraints exist (e.g., bats), the client must ensure that all mitigation measures recommended by ecologists are implemented and maintained.
 - Electrical installation work shall be carried out in accordance with the latest edition of the IET Wiring Regulations, BS 7671.
 - All luminaires shall be installed, aimed and commissioned strictly in accordance with manufacturer instructions. Incorrect tilt or rotation will invalidate the predicted lighting performance.
 - Any proposed column foundation designs, wind loading and ground conditions, is the responsibility of the structural engineer or contractor.
 - The client is responsible for ensuring safe access for maintenance, including periodic re-aiming and cleaning of luminaires.
 - Lighting performance will degrade over time due to LED lumen depreciation and dirt accumulation. The client must ensure appropriate maintenance intervals.
 - This design supports planning submissions but does not guarantee approval. Any planning driven changes may require redesign.
 - The client is responsible for ensuring that the installed lighting system remains compliant with all planning conditions throughout its operational life.

- SERVICE SAFETY & COORDINATION REQUIREMENTS**
- The contractor shall obtain current statutory service record plans from all relevant undertakers before commencing any street lighting installation, alteration, or removal works.
 - The contractor shall assume not all existing services are shown on design drawings. Any uncharted or unidentified services discovered must be carefully located, protected, recorded, and reported to the overseeing organisation and statutory undertaker immediately.
 - Prior to starting work, the contractor shall identify all overhead electrical and communication apparatus within or adjacent to the works. Where present, the relevant undertaker shall be consulted, and written safety guidance obtained.
 - Works near overhead lines shall comply with HSE Guidance GS6 – "Avoidance of Danger from Overhead Power Lines", including appropriate exclusion zones, barriers, and supervision.
 - All installation and removal works shall comply with: Electricity at Work Regulations 1989, Construction (Design and Management) Regulations 2015 (CDM 2015), ENA TS 43-8 (Underground Cable Laying), ENA ER G39/1 (Public Lighting Safety Code of Practice) and all other applicable HSE and electrical safety regulations.
 - Works near underground mains or cables shall follow HSE Guidance HSG47 – "Avoiding Danger from Underground Services", including verified service plans, CAT & Genny use, trial holes, and safe excavation methods.
 - The contractor shall liaise with all statutory undertakers to plan and programme any required protection, isolation, or diversion works, ensuring necessary permits and approvals are in place.
 - Any service diversions or protection works shall be undertaken by, or under the supervision of, the relevant statutory undertaker in accordance with the New Roads and Street Works Act 1991 (NRSWA).
 - The contractor shall maintain accurate as-built records of all discovered or relocated services and issue updated information to the overseeing organisation at project completion.

The details provided on this drawing are subject to comments by all relevant approving authorities and/or any overseeing organisation. It is to be understood that these drawings and the information shown shall not be used for construction.

This drawing should not be used any tendering, procurement of materials or construction until technical approval is received. Should any tendering, procurement, installation or removal works take place prior to obtaining written full technical approval, then it is entirely at risk and SHD Lighting Consultancy Ltd accept no responsibility for these actions.

Abacus 4m lighting column (TB-040)	
Luminaire:	Abacus S-Lum Gen 3
Mounting Type:	Post top mounted at 5° tilt
Manufacturer Ref:	AL61302 070 M 740v2 S3 M 54 70 11200 B 002 7040
Lumen Output:	11,200lm
Charge Code:	42 0070 0000 100
Luminaire Wattage:	70w
Colour Temperature:	Neutral White (4000k)
Luminous Intensity:	G2 (semi cut off)
Control Type:	To be confirmed by others

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

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

	Lighting lux values at ground level
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	1m² around EV chargers lux values at ground level
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LIGHTING LEVELS:	
1m surround each EV charger:	
Minimum average illuminance (Eav): >150.00 lux	
Uniformity (Uo): 0.67 (67%)	
EV charging bay:	
Minimum average illuminance (Eav): >100.00 lux	
Uniformity (Uo): 0.50 (50%)	

R0	INITIAL DESIGN FOR REVIEW AND COMMENT	30/03/2026	SRH
REV	DESCRIPTION	DATE	BY

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

PROJECT:	BP ASHINGTON SF CONNECT		
DRAWING:	EV LIGHTING DESIGN		
CLIENT:	ENVEVO		
DRAWING NUMBER:	SHD2702 SHD-HLG-ASH-DR-ED- Lighting Layout R0	DRAWN:	SRH
	SHEET 1 OF 1	CHECKED:	SRH
CONTRACT NUMBER:	SHD2702	DATE:	30/03/2026
		SCALE @ A1:	1:250
		REVISION:	R0

NOT TO BE USED FOR CONSTRUCTION