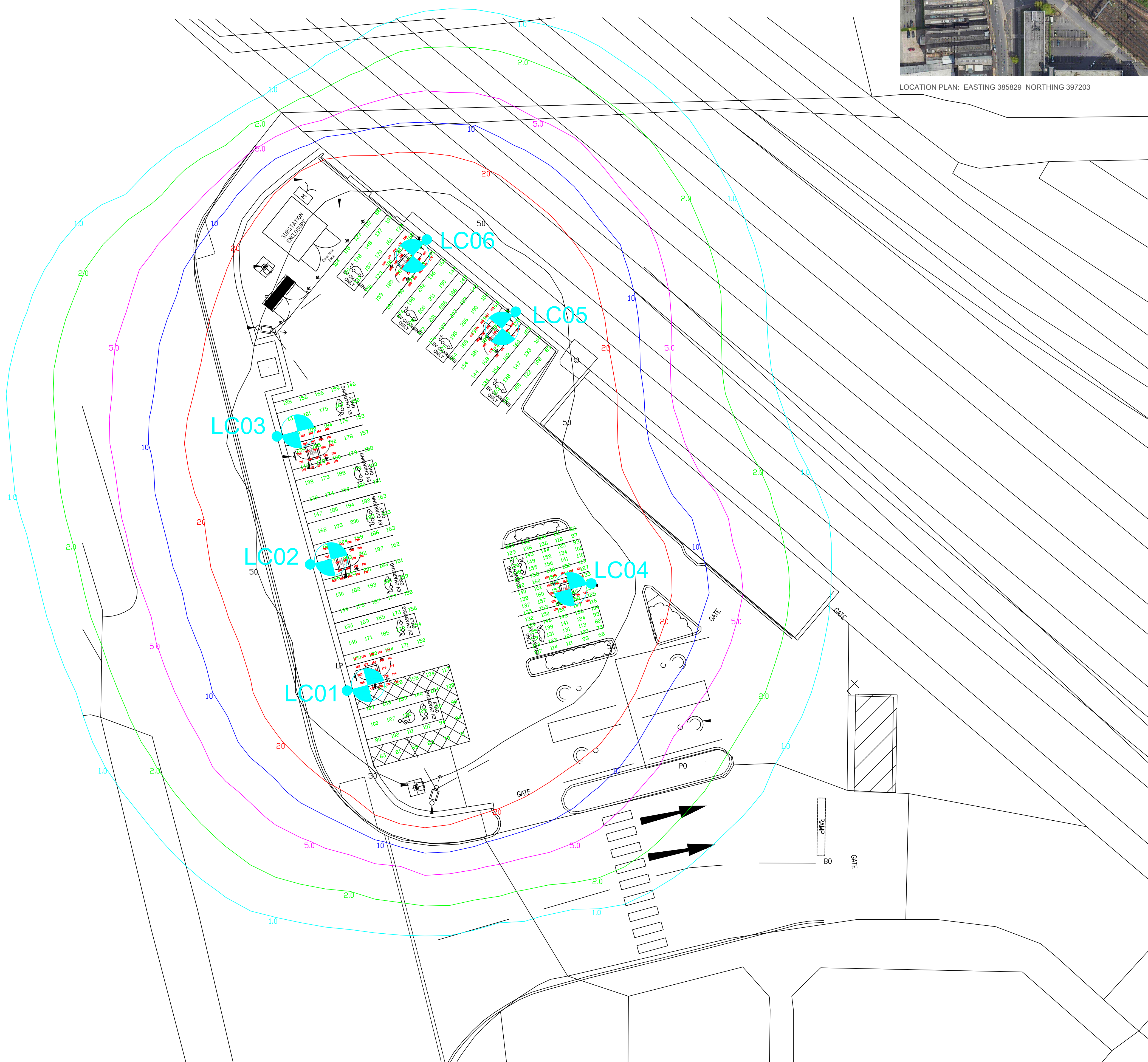


| Designation                                  | Minimum Technical Requirement |                           |                                                 | Note                      |
|----------------------------------------------|-------------------------------|---------------------------|-------------------------------------------------|---------------------------|
| Area between EV Charger                      | E <sub>average</sub> [lx]     | E <sub>minimum</sub> [lx] | u0 = E <sub>minimum</sub> /E <sub>average</sub> |                           |
| EV Charger area (1m around the Charger Unit) | E <sub>ave</sub> ≥ 150        | E <sub>min</sub> ≥ 100    | u0 ≥ 0.67                                       | Measuring at ground level |
| EV Charging bay                              | E <sub>ave</sub> ≥ 100        | E <sub>min</sub> ≥ 50     | u0 ≥ 0.50                                       | Measuring at ground level |



LOCATION PLAN: EASTING 385829 NORTHING 397203



#### 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.
- 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.
- 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.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- 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 take all necessary steps to ensure that any such 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.
- Electrical installation work shall be carried out in accordance with the requirements of the latest edition of the IET wiring regulations, BS 7671.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels.
- 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.
- 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 designers.
- Lighting unit positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers 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.
- 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 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



Proposed galvanised tubular steel lighting column of 4.0 metre nominal height with a planted base with glass flake root protection.  
Column to be manufactured to:  
EN 40, BS EN 1461 & BS 5649 standards

Luminaire: Kingfisher Viva City Pro  
Mounting Type: Post top mounted at 0° tilt  
Manufacturer Ref: Viva City Pro 4000k 624mA FW70  
Lumen Output: 17.76klm  
Luminaire Wattage: 120w  
Colour Temperature: Neutral White (4000k)  
Control Type: Group switched  
Supply: Private cable network  
Primary Isolator: 32A double pole switch with BS 88 Type 2 6A fuse to luminaire  
Secondary Isolator: N/A

Internal Wiring: Internal wiring to luminaire shall be 1.5mm² Artic Grade PVC insulated flexible cable  
Door Orientation: Perpendicular to kerb edge

#### UNIT IDENTIFICATION KEY:

LC\*\* Proposed lighting column identification number

#### ISOLUX CONTOUR KEY:

- 1.00 Isolux contour line
- 2.00 Isolux contour line
- 5.00 Isolux contour line
- 10.00 Isolux contour line
- 20.00 Isolux contour line
- 50.00 Isolux contour line

171 150  
150 200  
Parking bay lux values at ground level

239 264  
241 264  
254 263  
1m² around EV chargers lux values at ground level



KINGFISHER LIGHTING  
VIVA CITY PRO  
(SHOWN POST TOP MOUNTED)

|     |                                       |            |     |
|-----|---------------------------------------|------------|-----|
| R0  | INITIAL DESIGN FOR REVIEW AND COMMENT | 03/10/2024 | SRH |
| REV | DESCRIPTION                           | DATE       | BY  |

# SHD

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

|                  |                                                 |            |       |
|------------------|-------------------------------------------------|------------|-------|
| SCHEME:          | UNIVERSAL SQUARE                                |            |       |
| DRAWING:         | EV CHARGING STATION                             |            |       |
| CLIENT:          | ENVEVO                                          |            |       |
| DRAWING NUMBER:  | SHD1766-SHD-HLG-UNIV-ZDR-ED- Lighting Layout-R0 | DRAWN:     | SRH   |
|                  | SHEET 1 OF 1                                    | CHECKED:   | SRH   |
| CONTRACT NUMBER: | SHD1766                                         | APPROVED:  |       |
|                  | DATE: 03/10/2024                                | SCALE @ A1 | 1:125 |
|                  |                                                 | REVISION:  | R0    |

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.