Lighting Application Specialists (LiAS)

Design

CONFIDENTIAL – Commercially Sensitive

Project Name: Old Barrack, Bantry R3

LiAS Reference: D-533773

Key Account Manager: Seán Campbell

Email: Seán.Campbell@signify.com

Phone: +353 87 062 9330

Address: Suite 12, Plaza 256, Blanchardstown Corporate Park 2, Dublin 15, Dublin, D15 TR96

Lighting Application Notes

This preliminary design is produced by the Lighting Application Specialist (LiAS) team of Signify based on information supplied by the Customer for the purpose of identifying suitable products and costing the proposal. This design cannot be used for Construction. This design does not purport to eliminate health and safety risks as a risk assessment has not been undertaken. Depending on the level of information received, a number of assumptions may have been applied in order to create an indicative lighting proposal and costing model, according to lighting industry guidelines and incorporating industry best practice methods. These assumptions are documented below and will require confirmation by the Principle Designer nor are we the PSDP (which is not Signify) during the detailed design phase.

Project Specific Comments/Assumptions

- Lighting Calculation has been produced to achieve Lighting Class as specified by Client
- Where column heights have not been provided/specified, these have been assumed to be mixed.
- It has been assumed that luminaires will be mounted post-top on outreach brackets).

Generic Comments/Assumptions (unless otherwise stated above)

- Preliminary Design proposals produced by the Signify LiAS Team are not to be used for installation purposes. It is the responsibility of the Principle Designer and/or Principle Contractor to ensure all Installation and Maintenance can be done in a safe manner, carried out by competent persons, based on their agreed Risk Assessments and Method Statements.
- The Luminaire Maintenance Factors have been based on 6-year cleaning intervals within an E3/E4 Environmental Zone and it is assumed that lamp/luminaire failures will be replaced on a 'spot replacement'.
- Energy consumptions have been based on the luminaire/s having Constant Light Output (CLO) enabled and the quoted wattage/s are the average over 100,000 hours (without dimming).
- The design calculations produced by Signify do not account for the effect obstructions, such as trees, will cause.
- Signify has not been provided with utility plans showing Buried, Above Ground or Overhead utilities. Therefore, all column/ luminaire locations are indicative and are subject to review/verification by the Principle Designer.
- Unless stated otherwise, Signify has not visited site. Therefore, all column/luminaire locations are indicative and are subject to an onsite verification arranged/performed by the Principle Designer.
- Signify has not produced any Private Cable Network electrical calculations or reviewed the DNO network to confirm power supplies to the proposed lighting.
- Signify has not performed any asset condition testing and therefore assumes that any existing lighting columns/wall mounted brackets are structurally capable of supporting the weight & windage of the proposed luminaire/s. This must be verified by the Principle Designer before installation works commence.
- Unless stated otherwise, Signify is not supplying the new lighting columns (including brackets etc) and therefore it is the responsibility of the Principle Designers to confirm that all proposed equipment is suitable for the intended locations (e.g. raise & lower, ground condition, foundation type, saline environment, etc).
- Unless stated otherwise, luminaires will be supplied in their standard colour.

- **WARNING -** *All proposed locations are only adversary and will need to be measured and set back from any ESBN low voltage assets 230v, any larger ESBN assets such as 400v or above. We advise you refer to the ESBN guidance docs on set back from ESBN assets before setting out the site or sending anyone to work. This will be down to the installation contractor to set out the column locations on site.*

DATE:	**11 October 2023**
DESIGNER:	**Seán Campbell**
PROJECT No:	**D-533773**
PROJECT NAME:	**Old Barrack, Bantry R3**

Using new locations indicated on the drawing plotted
All wattages with CLO Active & Dimming Profile 2A 12am to 6am
(E3/E4 zone 6yr clean) @Various mounting height, MF = 0.76
Height 6m, Lantern A - 5klm 29Watts, Grid 1 C4

Old Barrack, Bantry R3

Our global brands are

Seán Campbell - Key Account Manager
Road Lighting Ireland, BSc(Eng.), MSc, Interim CEng, MIEI, AMEI,
Signify Ireland Ltd
+353 87 062 9330 sean.campbell@signify.com
Suite 12, Plaza 256, Blanchardstown Corporate Park 2, Dublin 15, D15 TR96

We are a carbon neutral company

Onsite install and commissioning on mobile app

Layout Report

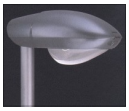
General Data

Dimensions in Metres Angles in Degrees
Local Origin at 99999998.00m x 99999998.00m
Grid Origin -99500302.1m x -99451482.3m
Area 115.4m x 89.8m
Sample Spacing 1.50m x 1.50m

Luminaires

Luminaire A Data

Supplier	Philips
Type	BGP291 DW50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	5.00
File Name	LumiStreet Gen2 Micro_BGP291_DW50_5000_20LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	609.4, 39.0, 0.0
No. in Project	8



Luminaire B Data

Supplier	demo
Type	100W Side road lantern
Lamp(s)	SONT100
Lamp Flux (klm)	10.50
File Name	sroad100.pmo
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	359.0, 141.0, 38.0
No. in Project	1

Luminaire C Data

Supplier	demo
Type	150W Main road posn 4
Lamp(s)	SONT150
Lamp Flux (klm)	16.50
File Name	mr150d.pmo
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	453.0, 150.0, 10.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	-99500283.1	-99451449.43	6.00	93.00	0.00	0.00	1.00			
2	A	-99500261.3	-99451445.90	6.00	105.00	0.00	0.00	1.00			
3	A	-99500275.3	-99451450.62	6.00	288.00	0.00	0.00	1.00			
EXISTING 4	C	-99500247.0	-99451465.10	10.00	291.00	0.00	0.00	1.00			
5	A	-99500242.2	-99451436.76	6.00	108.00	0.00	0.00	1.00			
6	A	-99500222.8	-99451425.80	6.00	112.00	0.00	0.00	1.00			
7	C	-99500279.6	-99451478.13	10.00	90.00	0.00	0.00	1.00			
9	A	-99500222.5	-99451441.11	6.00	130.00	0.00	0.00	1.00			
11	A	-99500202.3	-99451423.28	6.00	144.00	0.00	0.00	1.00			
12	A	-99500202.2	-99451402.65	6.00	304.00	0.00	0.00	1.00			

8514339530

Layout Continued

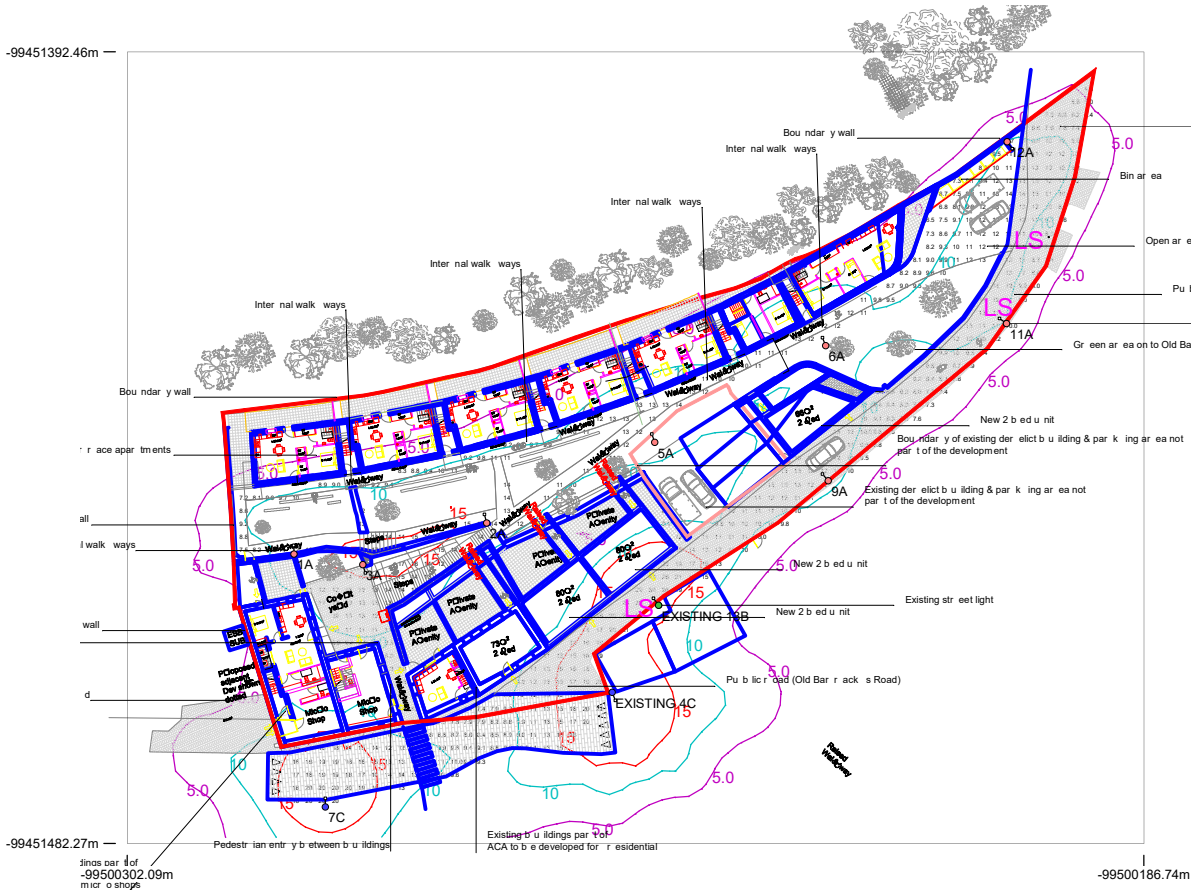
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
EXISTING 13	B	-99500241.8	-99451455.25	8.00	126.00	0.00	0.00	1.00			

DATE: 11 October 2023 DESIGNER: Seán Campbell

PROJECT No: D-533773 PROJECT NAME: Old Barrack, Bantry R3

Horizontal Illuminance (lux)

Grid 1



Results

Eav	11.98
Emin	4.79
Emax	29.61
Emin/Emax	0.16
Emin/Eav	0.40

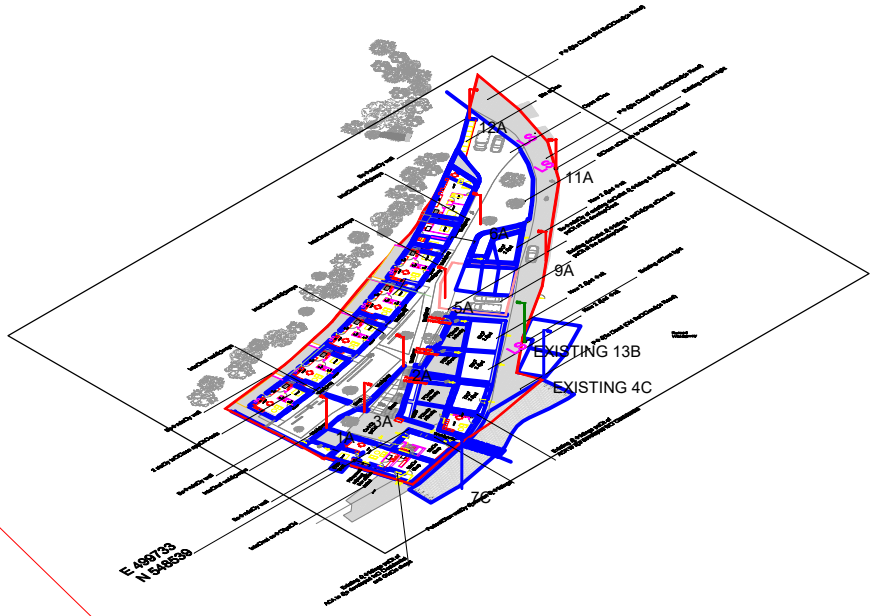
8514339530

DATE: 11 October 2023 DESIGNER: Seán Campbell

PROJECT No: D-533773 PROJECT NAME: Old Barrack, Bantry R3

Horizontal Illuminance (lux)

Grid 1



8514339530

Signify

the meaning of light