



The Lighting Impact Assessment has been prepared by Eccleston Homes Ltd in support of the residential development at Langley Lane, Birch. The purpose of this report is to identify the impact of the lighting design strategy in relation to biodiversity within the site and to provide avoidance, mitigation or compensation measures to ensure completion of these works without the risk of disturbing species or habitats.

Planning Condition 17 imposed states:

No external lighting shall be installed on the site unless a scheme for such lighting has been submitted to and approved in writing by the Local Planning Authority.

Such details shall:

1. set out the position and height of means of lighting on the building or site and its lux plot and luminance, angle of installation and any hoods to be fixed to the lights;
2. provide lighting contour plans to demonstrate clearly any impacts on the Whittle Brook Corridor;
3. specify frequency and duration of use.

The approved scheme shall be implemented prior to occupation of the dwellings and in accordance with the approved details and retained as such thereafter.

The Lighting Impact Assessment includes the following:

1. Planning Layout indicating the location of the lighting serving the properties, proposed adoptable street lamps, bollard lighting to the shared driveways and bulkhead lighting to the rear of plots 20-23;
2. Lighting Plan - 25670-D-01 A prepared by HDS;
3. Adoptable Street Lighting Design – SL1194.APT.HLG.XX.DR.Y.913001 Rev 4;
4. Data Sheets for the private lighting.

The onsite lighting will have minimal impact on wildlife due to the retainment and enhancement of the grassland areas, trees and linear features.

The lighting scheme has been designed to ensure that lighting is minimised in the areas identified as most important for commuting and foraging bats.

In order to avoid a detrimental impact on bats using the site, there will be limited light spillage onto suitable habitats, particularly along the northern, eastern and southern site boundaries as shown on drawing 25670-D-01 A.

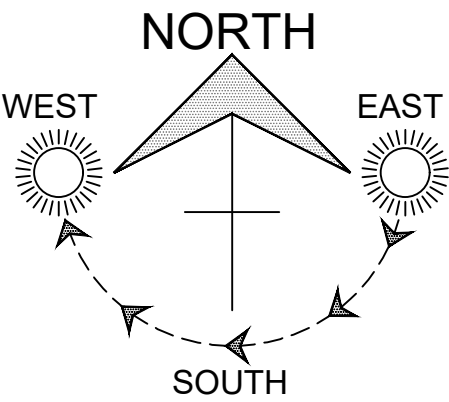
All external lighting shall be installed in accordance with the Bat Conservation Artificial Lighting Guidelines 2018 and the specifications and locations set out in the strategy, and these shall be maintained thereafter in accordance with the strategy. Under no circumstances should any other external lighting be installed without prior consent from the local planning authority.

The requirements of PpE JP-G9 and Policies G7 and G9 of the adopted Rochdale Core Strategy and the National Planning Policy Framework have been satisfied.



SCHEDULE OF ACCOMMODATION				
TYPE M	3 BED SEMI DET HOUSE	1026sqft	1	1026sqft
TYPE N	3 BED SEMI DET HOUSE	1026sqft	1	1026sqft
TYPE K	3 BED SEMI DET HOUSE	1108sqft	4	4432sqft
TYPE B	4 BED DETACHED HOUSE	1152sqft	1	1152sqft
TYPE R	4 BED DETACHED HOUSE	1152sqft	1	1152sqft
TYPE C	3 BED DET BUNGALOW	1295sqft	2	2590sqft
TYPE D	4 BED DETACHED HOUSE	1468sqft	2	2936sqft
TYPE Q	4 BED DETACHED HOUSE	1491sqft	2	2982sqft
TYPE E	4 BED DETACHED HOUSE	1567sqft	2	3134sqft
TYPE P	4 BED DETACHED HOUSE	1567sqft	3	4701sqft
TYPE L	5 BED DETACHED HOUSE	1704sqft	1	1704sqft
TYPE F	4 BED DETACHED HOUSE	1744sqft	3	5232sqft
TOTAL			23	32067sqft

GROSS SITE AREA:	3.28 Acres
POS/AMENITY SPACE & PUMPING STATION:	0.72 Acres
NETT SITE AREA:	2.56 Acres
GROSS DENSITY:	7.01 Units/Acre
NETT DENSITY:	8.98 Units/Acre
TOTAL FOOTAGE:	32067 Sqft
GROSS FOOTAGE:	9777 Sqft/Acre
NETT FOOTAGE:	12526 Sqft/Acre



H	BLOCK PAVING ADDED TO SHARED DRIVES.	JSM	26.06.24
G	LAYOUT UPDATED TO LA COMMENTS.	JSM	26.04.24
F	LAYOUT UPDATED TO LA COMMENTS.	JSM	15.02.24
E	LAYOUT UPDATED TO LA COMMENTS.	JSM	13.02.24
D	LAYOUT UPDATED TO LA COMMENTS.	JSM	13.11.23
C	LAYOUT COMPLETED.	JSM	01.08.23
B	BUNGALOWS UPDATED & GARAGES ADDED.	JSM	28.06.23
A	MIX AMENDED & LAYOUT UPDATED.	JSM	13.06.23

REV.	DESCRIPTION	INT.	DATE
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Eccleston
HOMES

PROJECT

LANGLEY LANE,
BIRCH

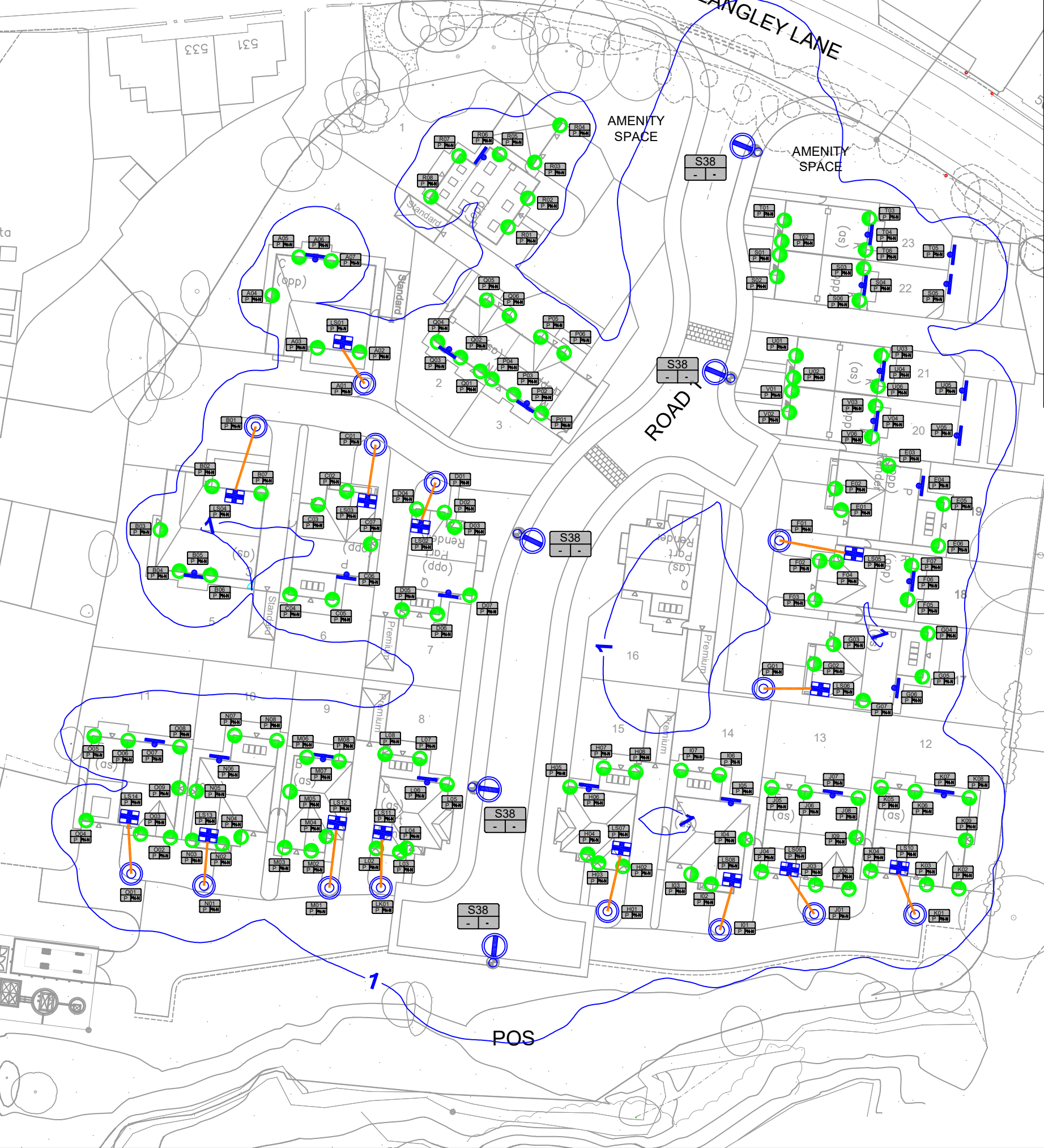
DRAWING TITLE

PLANNING LAYOUT

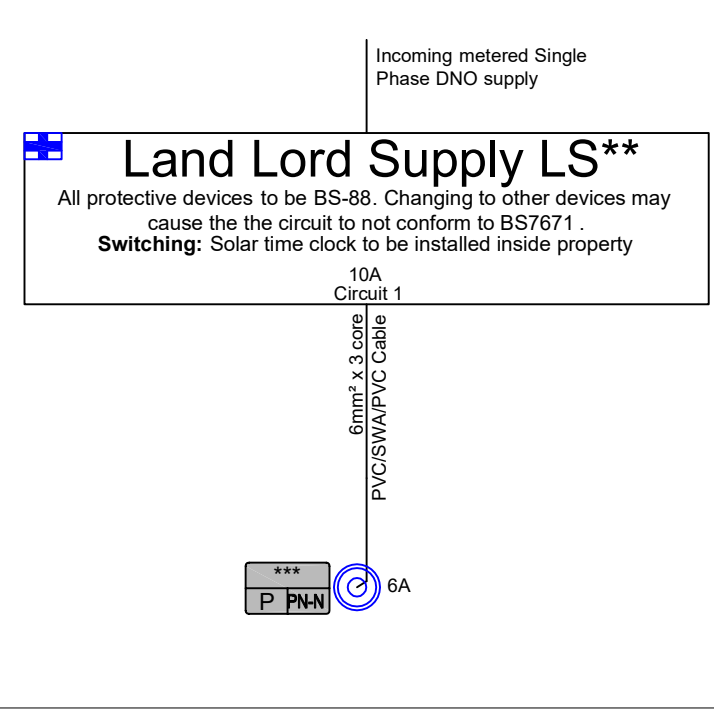
JOB NUMBER	038	REV	
DRAWING NUMBER	102	H	
DRAWN	JSM	23.04.23	SCALE
CHECKED	-	-	1:500
			A2

- EXTERNAL LIGHTING KEY**
- Up & down wall light - Deta Stainless Steel Grade 304 L2852LED6
 - Rear flood light - Brackenheath 20W iSpot with PIR I2023
 - Location of external bollard light with direct connection to properties electrical supply - Ansell Taurus Bollard 2390 Lumens
 - Location of dusk to dawn wall mounted round bulkhead light with direct connection to properties electrical supply.
 - Location of Approved 6m columns to be adopted by Rochdale Council. Refer to design - SL1194.APT.HLG.XX.DR.Y.913001 Rev 4.

Layout showing equipment positions and duct runs, Scale 1:250 at A1



Landlord Supply Schematic, NTS



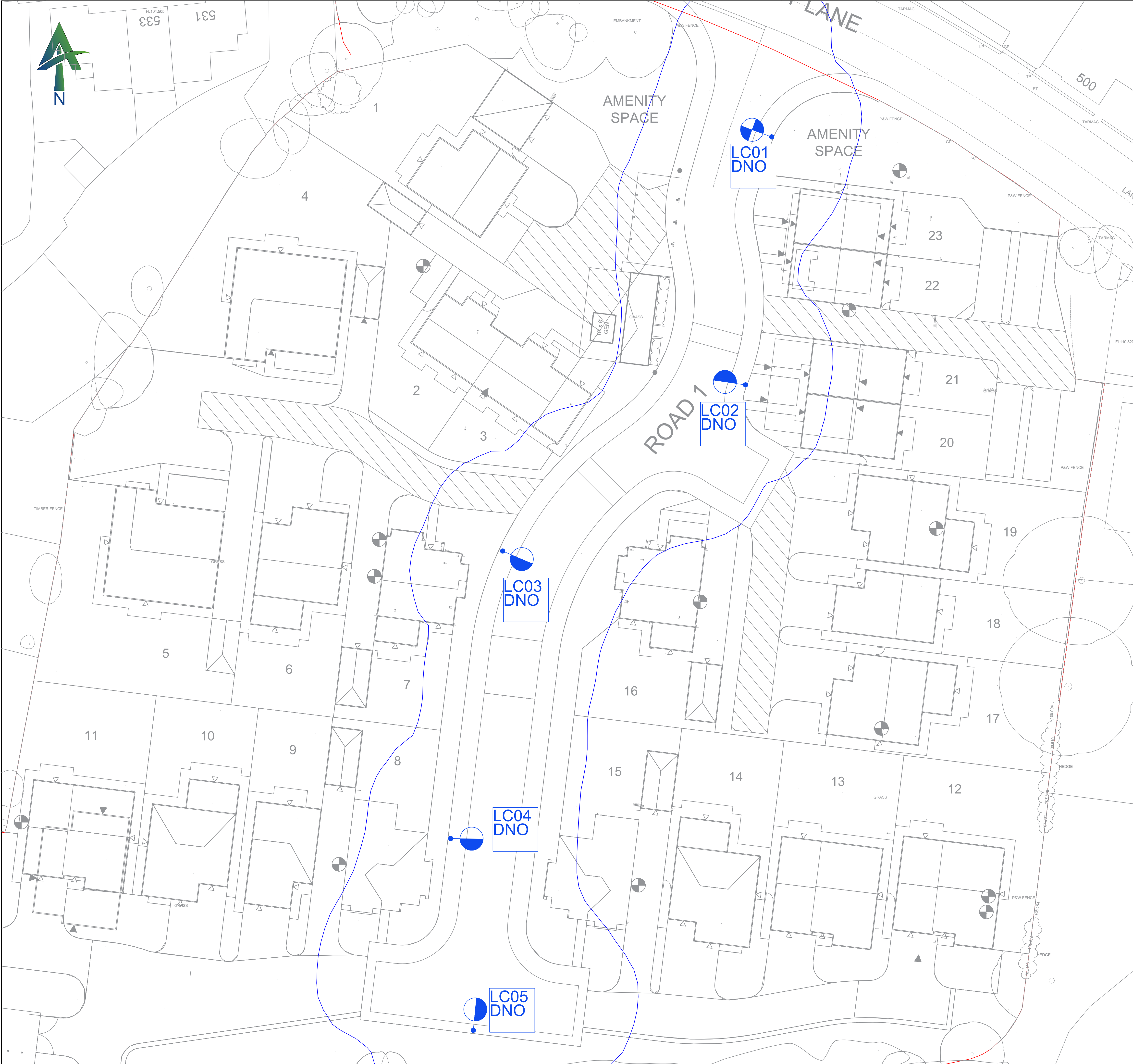
- Key**
- Proposed Wall Mounted Lantern: Manufacturer: Deta, Mounting: Wall Mounted, Wattage: 24W, Photometry file: 'PMD 0012 V1.0 - L2856LED6 - UpDown Wall Light DETA.ies'
 - Proposed Wall Mounted Floodlight: Manufacturer: Urbis, Model: Neos, Mounting: Wall Mounted, Tilt: 15°, Wattage: 18W, Photometry file: 'NEOS 1 LED 5068 16 XP-G3 350mA WW 730 18.3W 331872 Flat glass 230V TF Idt'
 - Proposed Bollard: Manufacturer: Ansell, Model: Taurus Bollard, Material: Aluminium, Height: 1m, Wattage: 25W, Switching: Refer to electrical schematics
 - Proposed Landlord Supply Outgoing Cable(s): Circuits protected by S38, Switching: Refer to landlord schematics
 - Section 38 Column: Used for spill lighting onto private drives
 - Proposed column scheme number: A01 = Proposed Bollard/Column Number, S38 = Section 38 column, PN-N = Proposed Landlord Supply connection, LS01 = Landlord Supply Number, P = Proposed Column/Bollard
 - 1.0 lux contour line - BS5489-1:20 20 Lighting
 - 100mm orange MDPE duct including draw cord at 750mm cover across highway and car park and 450mm cover in footway and service strip. (Ducting route is indicative only)

Notes

- All wiring including component labelling to be in accordance with BS7671.
- Prior to excavation works the installation contractor must be aware of underground services or hazards which may be encountered in the installation of the lighting system. Advice should be sought from the developers engineering representative.

A	Client Comments	06/08/24	JL	PDL
REV	DESCRIPTION	DATE	DRNAPP	REV
	DRAWING NO:	25670-D-01		A
	DRAWING STATUS:	DESIGN		
	CLIENT:			
	PROJECT:	Langley Lane, Birch Private Lighting		
	TITLE:	Proposed Lighting and Installation Design Layout		
	SCALE:	AS INDICATED	DESIGNED BY:	JL 01/08/24
	SHEET NO:	Sheet 1 of 1	APPROVED BY:	PDL 05/08/24
				
		E. info@hdsighting.com		
		T. 01625 925 735		





- HEALTH & SAFETY NOTES**
- 1.All materials to bear the relevant BS kitemark, comply fully with the specifications and to be agreed with the overseeing organisation/site representative prior to ordering.
 - 2.All statutory consents, opening notices etc. required under Highways acts and water industries acts to be obtained by the contractor prior to commencement of the works (unless otherwise stated). All works to be inspected by Local Authority representative, NHBC or statutory authority as applicable.
 - 3.Contractor to make allowance for the management and coordination of statutory undertakers diversions within the programme of works. Statutory undertakers equipment in the highway to be verified by the contractor prior to starting any works. Statutory plant shown on any plans is indicative and should not be relied upon for the final location. The contractor should confirm the location via hand dug trial trenches prior to commencing. Allowance for the presence of appropriate protection / diversion measures is to be put in place by the contractor (unless stated otherwise) where stats equipment are found.
 - 4.The contractor is responsible for ensuring all advance notices are in place and traffic management agreed for the works prior to commencing. The contractor is to make allowance for the advance provision of all electrical works and equipment for signals and street lighting within their programme of works.
 - 5.This drawing to be read in conjunction with others for this project.

- CDM REGULATIONS 2015**
- In line with the above regulations we are obliged to inform the client of the risks that may be encountered in the construction of these works. Wherever possible risks have been eliminated from the design, however due to the nature of these activities it is not possible to remove all the risks. We would also remind the client of their obligations to take all reasonable steps appointing competent contractors with valid safety policies. Satisfactory responses should be provided at tender stage as to the manner in which they will deal with the risks involved in particular those highlighted by below:-
1. Trench excavations in excess of 1.2m deep.
 - 2.Guarding to edges of excavations to prevent falling into excavation.
 - 3.Guarding of excavations outside working hours to prevent unauthorised access.
 - 4.Undermining to adjacent roads or structures.
 - 5.Confined space operations.
 - 6.Dealing with existing services.
 - 7.Traffic management on existing highways and protection of site personnel and members of the public.
 - 8.Procedure for accident or emergency.
 - 9.Method of working where contaminated ground is present on site.

- Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied. Any construction personnel, including operatives intending to construct the designs shown on this drawing should ensure that they have been regularly and thoroughly briefed by the principal contractor on all health and safety matters and have had sight of:-
- The full designers and contractors risk assessments and risk registers.
 - The developed construction Health and Safety plan.
 - The contractors construction method statements.

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public.

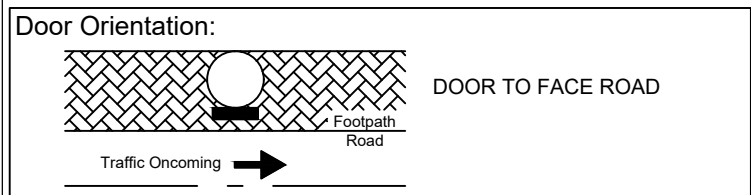
GENERAL NOTES

1. All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such. All documents shall be checked to ensure they are compatible by the contractor before construction commences. In the event of apparent ambiguity or contradiction, the designer shall be notified immediately. Aptus Utilities accept no liability in the event of not being notified and where construction work has commenced.
- 2.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. Where information is apparently contradictory or ambiguous, the design engineer is to be notified immediately. Aptus Utilities accept no liability for setting out errors where work is construction to incorrect information.
- 3.This design has been prepared in accordance with the HEMS/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 3 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.
- 4.All electrical installation works must be in accordance with BS7671:2018
- 5.This lighting design has been produced without a simultaneous contact risk assessment with regards to Electric vehicle chargers.

- NOTES:**
1. All lighting columns shall have individual DNO electrical services.
 2. All works are to be carried out in accordance with 'The Specification for Road Lighting, Illuminated Traffic Signs and Bollards in Oldham & Rochdale'.
 3. 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.
 4. 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.
 5. The Contractor shall identify the location of any overhead electrical equipment prior to the undertaking of any onsite activities. Should the presence of such equipment be identified, the Contractor shall consult with the DNO for further guidance.
 6. Final lighting column positions shall be agreed onsite with the Local Authority Street Lighting Representative.
 7. Final lighting column identification numbers shall be agreed with the Local Authority Street Lighting Engineer.
 8. Lighting column foundations shall be designed in accordance with 'The Specification for Road Lighting, Illuminated Traffic Signs and Bollards in Oldham & Rochdale' and the manufacturer datasheets for the columns, soil types and environmental conditions present.
 9. All new lighting units shall integrate within the existing Oldham & Rochdale Harvard LeafNut Central Management System network.
 10. The Contractor shall provide the Local Authority with as-built drawings, test certificates and column and lantern data sheets in accordance with 'The Specification for Road Lighting, Illuminated Traffic Signs and Bollards in Oldham & Rochdale'.

	Total In Project:	1
	Column Height:	6 Metre
	Galvanised tubular steel, planted root lighting column with Glass Flake protection, supplied by Valmont Stainton to Oldham & Rochdale County Council Street Lighting Specification.	
	Column Reference: CC4638 Rev03	
Luminaire:	Post Top V-max luminaire as supplied by Holophane.	
Luminaire Type/Reference:	VMX.2.LA043.V1.F4Q1.W023.PT1.T7.LRD CL8.L007	
Luminaire Tilt:	0 °	Lumen Output: 3,33 KLM
Luminaire Temperature:	3000K	
Control Gear:	Philips Xitanium dimmable DALI enabled	
Control Type:	Lucy Vizion Collector 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.	
Dimming Profile:	N/A	
Supply:	DNO - ENWL	
Primary Isolator:	TOFCO Single Phase Double Pole cut-out including service cable entering the column's cable entry slot through a 38mm diameter Red elbow duct all meeting the specification of Electricity North West	
Secondary Isolator:	N/A	
Internal Wiring:	Internal wiring to luminaire 3 core 1.5mm² PVC insulated flexible cable tp BS6004 and 300/500v grade.	

	Total In Project:	4
	Column Height:	6 Metre
	Galvanised tubular steel, planted root lighting column with Glass Flake protection, supplied by Valmont Stainton to Oldham & Rochdale County Council Street Lighting Specification.	
	Column Reference: CC4638 Rev03	
Luminaire:	Post Top V-max luminaire as supplied by Holophane.	
Luminaire Type/Reference:	VMX.2.LA043.V1.F4Q1.W023.PT1.T7.LRD CL8.L007	
Luminaire Tilt:	0 °	Lumen Output: 3,33 KLM
Luminaire Temperature:	3000K	
Control Gear:	Philips Xitanium dimmable DALI enabled	
Control Type:	Lucy Zodion Vizion CMS - UniNode 3 with 5-pin suitable for 7-pin Nema sockets.	
Dimming Profile:	N/A	
Supply:	DNO - ENWL	
Primary Isolator:	TOFCO Single Phase Double Pole cut-out including service cable entering the column's cable entry slot through a 38mm diameter Red elbow duct all meeting the specification of Electricity North West	
Secondary Isolator:	N/A	
Internal Wiring:	Internal wiring to luminaire 3 core 1.5mm² PVC insulated flexible cable tp BS6004 and 300/500v grade.	



ELECTRICAL CONNECTION TYPE:	
DNO	-Proposed DNO Supply Connection
COLUMN IDENTIFICATION KEY:	
LC**	- Lighting Column Identification Number

- Standard Detail References :
- 13.03. Installation of Steel Lighting Columns B
 - 13.04. Column Door Alignment
 - 14.26. Base Compartment General Arrangement REV A
 - 14.27. Column and Sign Numbering Detail
 - 14.28. Termination Labels in Base Compartment

NEW SITE LAYOUT, LC02 RELOCATED			
4	AA	AA	23/05/2024
AMENDMENTS MADE, AS PER LA COMMENTS			
3	AA	AA	17/12/2023
AMENDMENTS MADE, AS PER LA COMMENTS			
2	AA	JF	20/11/2023
AMENDMENTS MADE, AS PER LA COMMENTS			
1	AA	JF	17/10/2023
REV	DRAWN	CHECKED	APPROVED DATE
STATUS:			

STATUS: DETAILED DESIGN			
CLIENT: Eccleston Homes			
APTUS CONTRACT NUMBER: AP0524-1194			
DRAWING: Proposed Section 38 Street Lighting Design			
DRAWN: KR	DATE: 08/09/2023	CHECKED: AA	DATE: 08/09/2023
SHEET NO: 1 OF 1		SCALE: 1:250	@ A1 REV: 4
DEVELOPMENT: Langley Lane, Birch, Rochdale, OL10 2QJ			
DRAWING NO: SL1194.APT.HLG.XX.DR.Y.913001.REV4			

Aptus House, Unit 19-20,
Barrs Fields Road,
Wingates Industrial Estate,
Bolton, BL5 3XP
Tel : 01204 325000

ILP

EHS
CONTRACTOR

REF: 610444000

Stainless Steel Wall Lights



Description

This range of stainless steel outdoor wall lights are highly decorative and available in fixed and up/down models with or without PIR control, and are supplied with energy efficient LED lamps.

Features

- Available in Fixed and Up/Down
- High grade brushed stainless steel – grade 304 or 316 – suitable for use outdoors
- Include fixing screws and wall plugs
- Front shield is clear tempered glass
- GU10 lamp holder, maximum load 35W
- PIR version incorporates photocell
- Adjustable distance, time and lux levels on PIR
- Manual override facility on PIR
- 2-year guarantee (not including lamp)

Range

Stainless steel Grade 304

Up/Down	L2852LED6
Fixed with PIR	L2855LED6
Up/Down with PIR	L2856LED6
Up/Down with PIR (Tall body)	L2858LED6

Stainless steel Grade 316

Up/Down	L2872LED6
Fixed with PIR	L2875LED6
Up/Down with PIR	L2876LED6
Up/Down with PIR (Tall body)	L2878LED6

Technical Specification

Voltage	230-240V 50Hz
Lamp holder	GU10
IP Rating	IP44
PIR	Range 8m x 90°
	Timer 10 secs. to 4 min.
	Lux 2 - 1000
LED lamp	4W, 6500K

- *Stainless grade 304 Not suitable for use in highly corrosive environments*

Dimensions

	Depth	Width	Height	Wall Plate
L2852/72	90	60	166	78Ø
L2855/75	105	60	90	180 x 60
L2856/76	105	60	164	180 x 60
L2858/78	105	60	228	200 x 60

All dimensions in mm

Standards

- BS EN 60598-1
- BS EN 60598-2
- RoHS compliant



ispot SE LED Floodlights

Description

This range of unique ultra-thin LED Floodlights is ideal for domestic and commercial applications, and offer significant energy savings over traditional tungsten halogen fittings. Rear cable entry improves aesthetics as the cable is not visible once installed. The ispot SE range are rated to IP65.

Features

- Energy efficient replacement for tungsten halogen fittings
- Available with PIR
- PIR rated to IP65
- Integral driver
- 110lm/W
- 100-230V 50/60Hz
- 50,000 hours rated life
- 2 year guarantee

Range

10W LED Floodlight – Non PIR	ISE10B
10W LED Floodlight – PIR	ISE11B
20W LED Floodlight – Non PIR	ISE20B
20W LED Floodlight – PIR	ISE21B
30W LED Floodlight – Non PIR	ISE30B
30W LED Floodlight – PIR	ISE31B
50W LED Floodlight – Non PIR	ISE40B
50W LED Floodlight – PIR	ISE41B

Technical Specification

Voltage	85-265V ~
Driver	Integral
Lamp col. temp.	6000K
PIR detection	90-120°
PIR detection range	12m
IP Rating	IP65

Dimensions, Beam Angle & Lumens

	LED Beam Angle	Lumens	Fitting Dimensions (W x D x H)
10W	120°	1100lm	145 x 118.5 x 32
10W PIR	120°	1100lm	145 x 118.5 x 32
20W	120°	2200lm	203 x 161 x 39
20W PIR	120°	2200lm	203 x 161 x 39
30W	120°	3300lm	261 x 269 x 39
30W PIR	120°	3300lm	261 x 269 x 39
50W	120°	5500lm	261 x 269 x 49
50W PIR	120°	5500lm	261 x 269 x 49

Standards

- BS EN 60598-1+A11
- BS EN 60598-2-5
- BS EN 62493
- BS EN 55015+A2
- BS EN 61547
- BS EN 61000-3-2+A2
- BS EN 61000-3-3



Application	Commercial, Education, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Taurus Bollard

Taurus Bollard
Code: ATAUB/*



PRODUCT FEATURES

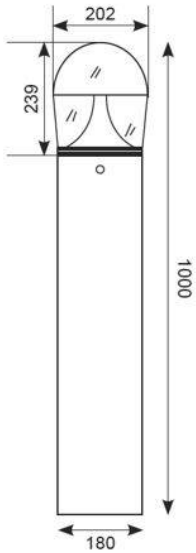
- Robust die-cast aluminium bollard with a textured graphite finish suitable for education, commercial and hospitality outdoor applications
- High efficiency upto 100lm/w
- Innovative base plate design allows greater installation flexibility
- Integral emergency option
- CCT selectable between 3000K and 4000K and power selectable; offering a choice of 3 outputs, in one luminaire
- Die-cast aluminium head with polycarbonate lens
- Supplied c/w root mounting kit
- Integral PIR option



Application	Commercial, Education, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Taurus Bollard

Taurus Bollard
Code: ATAUB/*





Category	Bulkheads
Application	Ancillary, Commercial, Education, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Lucca

Lucca CCT Multi Wattage

Code: ALUCLED/B

PRODUCT FEATURES

- IP66 rated die-cast aluminium wall light with opal polycarbonate diffuser suitable for education, commercial and industrial applications
- One product with integral switches for multi-wattage and selectable CCT options
- Powered by Tridonic
- Tamper-proof stainless steel allen key screws
- Non-dimmable

GENERAL INFORMATION

Wattage	18W - 27W
Lumens Delivered	1300lm - 1900lm (4000K)
Lm/W	69lm/W - 71lm/W (4000K)
Beam Angle	105/110
CRI	80
CCT	3000/4000K
Input	220/240V
Operating Temp	-20°C - 40°C
SDCM	5
Product Weight without Packaging	1.869 kg

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	Black
IP Rating	IP66
Class Protection	1
Internal / External	External
Surface / Recessed / Suspended	Wall
Lumen Depreciation	L70 60,000h
Warranty (Years)	5
CE Mark	Yes
Diameter	298 mm





Category	Bulkheads
Application	Ancillary, Commercial, Education, Healthcare, Hospitality, Industrial, Outdoor, Retail
Specification	Performance

Lucca

Lucca CCT Multi Wattage

Code: ALUCLED/B

