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**ELECTRICAL SERVICES REPORT
FOR
SITEWIDE PUBLIC LIGHTING
AT
CORNAMADDY, ATHLONE,
Co. WESTMEATH**

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1. Introduction

Westmeath Co. Council intend to apply for permission for a new Residential Development at Cornamaddy, Athlone, Co. Westmeath and this document purpose is to demonstrate compliance with the local requirement of public lighting.

2. Executive Summary

This report was prepared in accordance with the document 'Midland Counties, Public Lighting Specification(March 2017)' to ensure the development will be provided with adequate lighting to the standards of Westmeath County Council.

Design of the public lighting is based on the current standards for road lighting Class P4 of IS EN 13201-2:2015 and BS 5489-1: 2020 for paths (5.0 lux average, 1.0 lux minimum).

Consideration is to be made, in relation to areas of sensitive ecology, when specifying the pole positions and details of the lighting for the overall design.

The lighting design complies with the above requirements and detailed output is on the following pages.

3. Lighting Design Details

The design uses the following:

6 x Solo Area Lights 340w LED 3000K Symmetric Optic mounted on 8m poles with no tilt.
10 x Metro Streetlight 68w LED 3000K (5 x Street Optic R01 and 5 x Forward Throw A Optic) mounted on 8m on 8m poles with no tilt.

The average light level is 22 lux, 6 lux minimum (0.27 uniformity). This complies with IS EN 12464-2 for parking areas – heavy traffic (20 lux average, 0.25 uniformity).

Consideration for light spillage into neighbouring areas has been examined as part of this proposal, in conjunction with the local authorities guidelines. The Isolux contours are shown down to 1 lux on the below drawing and show no overlap with neighbouring properties or developments.

Appendix A

DATE: 3 December 2024
DESIGNER: Dan Staunton
PROJECT No: 24-08-06-01A
PROJECT NAME: Cornamaddy, Athlone



Residential Development at Cornamaddy, Athlone, Co. Westmeath
IS EN 13201-2:2015 / BS 5489-1:2020
Road & Paths - Class P4

Outdoor Lighting Report

Based on:
Lumen Output at 100,000 hours
Spot Lamp Replacement
Normal Environment
6 Year Cleaning Cycle
Ground is Level

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Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin -5.5m x -43.0m
Area 352.7m x 370.7m
Sample Spacing 1.49m x 1.49m

Luminaires

Luminaire A Data

Supplier	
Type	Veelite Metro Streetlight 19w LED Forward T hrow A Optic
Lamp(s)	8 LED 3000K G4
Lamp Flux (klm)	2.26
File Name	5MTA08LGA-FTA-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	401.3, 47.0, 0.5
No. in Project	9

Luminaire B Data

Supplier	
Type	Veelite Metro Streetlight 19w LED Street Opti c R03
Lamp(s)	8LED 3000K G4
Lamp Flux (klm)	2.27
File Name	5MTA08LGA-R03-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	537.8, 56.5, 0.3
No. in Project	31

Layout

ID /Mast	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
1	B	311.74	-19.34	6.00	0.00	0.00	0.00	0.50			
2	B	306.12	13.23	6.00	20.00	0.00	0.00	0.50			
3	B	289.88	30.52	6.00	54.00	0.00	0.00	0.50			
4	B	260.89	48.84	6.00	49.00	0.00	0.00	0.50			
5	B	239.16	76.61	6.00	36.00	0.00	0.00	0.50			
6	B	221.56	103.86	6.00	36.00	0.00	0.00	0.50			
7	B	199.33	115.19	6.00	71.00	0.00	0.00	0.50			
8	A	174.46	101.66	6.00	347.00	0.00	0.00	0.50			
9	A	170.10	76.91	6.00	343.00	0.00	0.00	0.50			
10	A	182.66	128.68	6.00	256.00	0.00	0.00	0.50			
11	B	51.87	136.94	6.00	36.00	0.00	0.00	0.50			
12	B	36.78	167.19	6.00	8.00	0.00	0.00	0.50			
13	B	41.25	201.91	6.00	356.00	0.00	0.00	0.50			
14	B	46.67	235.09	6.00	356.00	0.00	0.00	0.50			
15	B	59.51	258.09	6.00	287.00	0.00	0.00	0.50			
16	B	191.68	142.02	6.00	207.00	0.00	0.00	0.50			
17	B	178.63	174.55	6.00	208.00	0.00	0.00	0.50			
18	B	156.21	157.38	6.00	346.00	0.00	0.00	0.50			
19	B	176.82	155.19	6.00	165.00	0.00	0.00	0.50			
20	B	184.04	201.53	6.00	113.00	0.00	0.00	0.50			

Layout Continued

ID /Mast	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
21	A	159.21	182.28	6.00	23.00	0.00	0.00	0.50			
22	B	160.02	208.07	6.00	203.00	0.00	0.00	0.50			
23	B	149.20	234.74	6.00	203.00	0.00	0.00	0.50			
24	B	136.14	267.56	6.00	203.00	0.00	0.00	0.50			
25	B	130.52	293.69	6.00	178.00	0.00	0.00	0.50			
26	B	105.80	311.49	6.00	258.00	0.00	0.00	0.50			
27	B	85.17	291.98	6.00	352.00	0.00	0.00	0.50			
28	B	80.23	263.96	6.00	351.00	0.00	0.00	0.50			
29	B	100.23	253.00	6.00	83.00	0.00	0.00	0.50			
30	A	128.62	243.57	6.00	82.00	0.00	0.00	0.50			
31	B	135.29	195.49	6.00	263.00	0.00	0.00	0.50			
32	B	108.70	202.93	6.00	263.00	0.00	0.00	0.50			
33	A	65.91	213.13	6.00	263.00	0.00	0.00	0.50			
34	A	84.36	205.31	6.00	263.00	0.00	0.00	0.50			
35/1	B	151.49	127.27	6.00	83.00	0.00	0.00	1.00			
36/1	B	151.49	127.27	6.00	263.00	0.00	0.00	1.00			
37/2	B	114.72	133.28	6.00	83.00	0.00	0.00	1.00			
38/2	B	114.72	133.28	6.00	263.00	0.00	0.00	1.00			
39/3	A	83.88	139.14	6.00	80.00	0.00	0.00	1.00			
40/3	A	83.88	139.14	6.00	260.00	0.00	0.00	1.00			

Horizontal Illuminance (lux)

Road & Paths



Results

Eav	5.02
Emin	1.01
Emax	17.41
Emin/Emax	0.06
Emin/Eav	0.20

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