

DATE: 28 February 2023
DESIGNER: Alex Naper
PROJECT No: SES 15222 Rev A
PROJECT NAME: Main Street Newcastle - Deane & Deane Ltd



Residential area designed in accordance with EN13201-2:2015 Category P4.

Access junction meets recommendations of EN13201-2:2015 Category P2.

Rev A: Updated site layout.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
Contact: Graham Sheehan
eMail: graham@sabrelighting.ie

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	458.04	202.06	154.00	195.00	1.50	1.50
2	Grid 2	504.55	197.87	48.00	30.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5167 [[see details], PC, Black], [Int egrated lenses]
Lamp(s)	16 NVSL219CT@480mA NW740 230V 00-14-560
LampFlux(klm)/Colour	2.38 NW 4000K/70
File Name	AXIA 2.1 5167 16 NVSL219CT 480mA NW 740 26W 392812 [[see details], PC, Black], ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1205.8, 224.9, 0.0
No. in Project	6

Luminaire B Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5166 [[see details], PC, Black], [Int egrated lenses]
Lamp(s)	16 NVSL219CT@390mA NW740 230V 00-14-560
LampFlux(klm)/Colour	2.25 NW 4000K/70
File Name	AXIA 2.1 5166 16 NVSL219CT 390mA NW 740 21W 392782 [[see details], PC, Black], ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1141.2, 252.7, 0.0
No. in Project	4

Luminaire C Data



Supplier	Urbis Schreder
Type	Albany Large/5068 Asym/Clear P./48LED 500mA NW (9360) 81/LF#0
Lamp(s)	48LED 500mA NW (9360)
Lamp Flux (klm)	9.36
File Name	Albany Large_Clear P._5068 Asym_48LED 500mA NW (9360)_81_LF#02_34027215.I...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	277.0, 125.8, 5.8
No. in Project	4

Luminaire D Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses Rear louvers 8 OSLOM SQUARE
Lamp(s)	8 OSLOM SQUARE GIANT@400mA WW 7 27 230V 00-36-648
LampFlux(klm)/Colour	1.09 WW 2700K/70
File Name	AXIA 2.1 5165 8 OSLOM SQUARE GIANT 400mA WW 727 11.6W 434262 Integrated L...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1690.7, 164.7, 3.2
No. in Project	4

Layout

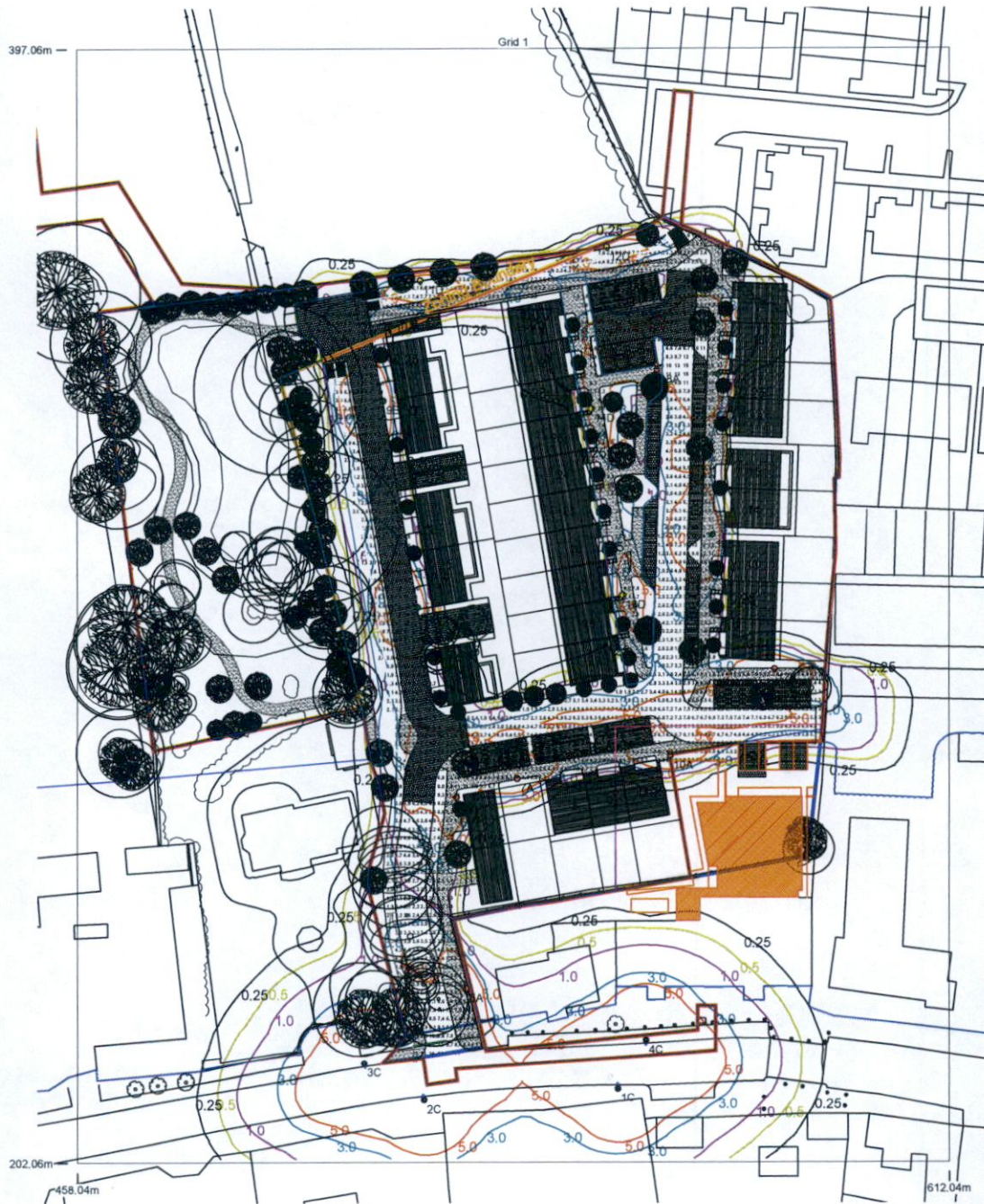
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	553.45	215.27	6.00	93.00	0.00	0.00	0.00			
2	C	519.24	213.25	6.00	102.00	0.00	0.00	0.00			
3	C	508.66	219.80	6.00	283.00	0.00	0.00	0.00			
4	C	558.41	223.93	6.00	268.00	0.00	0.00	0.00			
5	A	526.71	232.97	6.00	201.00	0.00	0.00	0.40			
6	A	524.99	266.29	6.00	173.00	0.00	0.00	0.40			
7	A	535.71	269.56	6.00	105.00	0.00	0.00	0.40			
8	B	518.16	299.49	6.00	188.00	0.00	0.00	0.40			
9	B	512.12	335.64	6.00	188.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	A	562.71	273.59	6.00	95.00	0.00	0.00	0.40			
11	D	518.57	356.57	6.00	278.00	0.00	0.00	0.40			
12	D	551.50	362.34	6.00	284.00	0.00	0.00	0.40			
13	D	554.29	301.57	6.00	10.00	0.00	0.00	0.40			
14	D	548.78	334.23	6.00	9.00	0.00	0.00	0.40			
15	B	571.04	340.25	6.00	176.00	0.00	0.00	0.40			
16	B	570.17	312.10	6.00	182.00	0.00	0.00	0.40			
17	A	581.08	288.76	6.00	264.00	0.00	0.00	0.40			
18	A	560.40	341.05	6.00	99.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

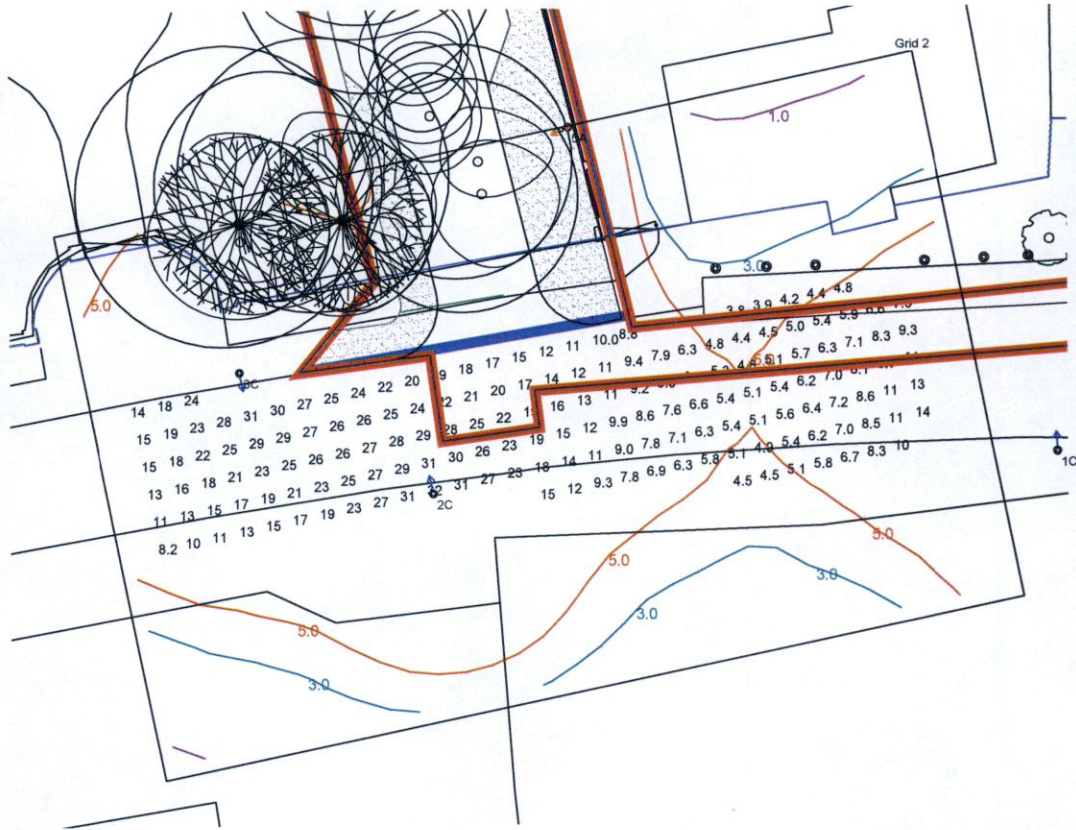


Results

Eav	5.05
Emin	1.04
E _{max}	16.73
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.21

Horizontal Illuminance (lux)

Grid 2



Results

Eav	14.60
Emin	3.81
Emax	32.03
Emin/Emax	0.12
Emin/Eav	0.26