

DATE: 19 March 2024
DESIGNER: Graham Sheehan & AN
PROJECT No: SES 07021 Rev C
PROJECT NAME: Heiton Buckley Yard Dwyer Nolan Developments



Residential area designed in accordance with ISEN13201-2 2015 Class P3.

Steps and ramps designed in accordance with EN17210:2021 with illuminance levels as per BS8300-1:2018 Table 5 (Ramps and stairs in the external environment)

Rev A: Junction section added.

Rev B: Updated site layout.

Rev C: Updated site layout.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
D11 VN59
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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	716511.00	739895.00	201.00	175.00	1.50	1.50
2	Grid 2	716660.00	739929.00	16.00	19.00	1.00	1.00
3	Grid 3	716582.37	740054.53	138.00	36.00	1.50	1.50
4	Grid 4	716671.96	740009.78	2.68	3.00	0.30	1.00
5	Grid 5	716656.35	740020.05	5.21	1.80	0.87	0.30

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-F2-NW-CB0750-29W
Lamp(s)	740C NW
Lamp Flux (klm)	3.48
File Name	P852K-12-F2-NW-CB0750-29W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	6

Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0500-20W
Lamp(s)	740C NW
Lamp Flux (klm)	2.51
File Name	P852K-12-P4-NW-CB0500-20W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	7

Luminaire C Data

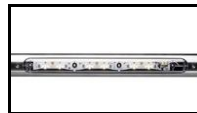


Supplier	C U Phosco
Type	P852K-12-R3B-NW-CB0200-9W
Lamp(s)	740C NW
Lamp Flux (klm)	1.11
File Name	P852K-12-R3B-NW-CB0200-9W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	896.4, 62.1, 1.9
No. in Project	5

Luminaire D Data

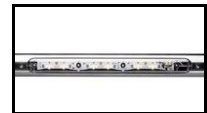
Supplier	
Type	Chelsea-T2 12-300mA-740
Lamp(s)	LED
Lamp Flux (klm)/Colour	1.82 3000/>70
File Name	Chelsea T2 12-300mA 740.lit
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	936.5, 143.9, 54.4
No. in Project	17

Luminaire E Data



Supplier	Urbis Schreder
Type	ALINEA Handrail 5117 - 3 LED 350mA WW Profiled Poly Clear, Sm
Lamp(s)	3 LEDs WW
Lamp Flux (klm)	0.37
File Name	ALINEA Handrail 5117 3 LED 350mA WW Profiled Poly Clear Smooth WO7312.lit
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	681.0, 51.7, 4.1
No. in Project	3

Luminaire F Data



Supplier	Urbis Schreder
Type	ALINEA Handrail 5121 - 3 LED 350mA WW Profiled Poly Clear, Sm
Lamp(s)	3 LEDs WW
Lamp Flux (klm)	0.37
File Name	ALINEA Handrail 5121 3 LED 350mA WW Profiled Poly Clear Smooth WO7314.lit
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	230.6, 22.2, 4.1
No. in Project	14

Luminaires



Luminaire G Data

Supplier	_Historic Lanterns
Type	MA 50 POSN NO. 2 X
Lamp(s)	SOX+ 135W
Lamp Flux (klm)	20.80
File Name	TM00005.CIB
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	273.0, 198.0, 52.0
No. in Project	7

Luminaire H Data

Supplier	
Type	Chelsea T4-B 12-300mA 740
Lamp(s)	LED
LampFlux(klm)/Colour	1.82 3000/>70
File Name	Chelsea T4-B 12-300mA 740.lit
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	581.6, 335.2, 31.9
No. in Project	3

Luminaire I Data

Supplier	
Type	CS16328 E950-28-HB-S-PC_(NF2x757G)
Lamp(s)	Nichia NF2L757G-V1 all leds rotated 90 to next led
Lamp Flux (klm)	2.00
File Name	E950 - 28-HB-S-PC.IES
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	22.6, 15.8, 14.6
No. in Project	3

Layout

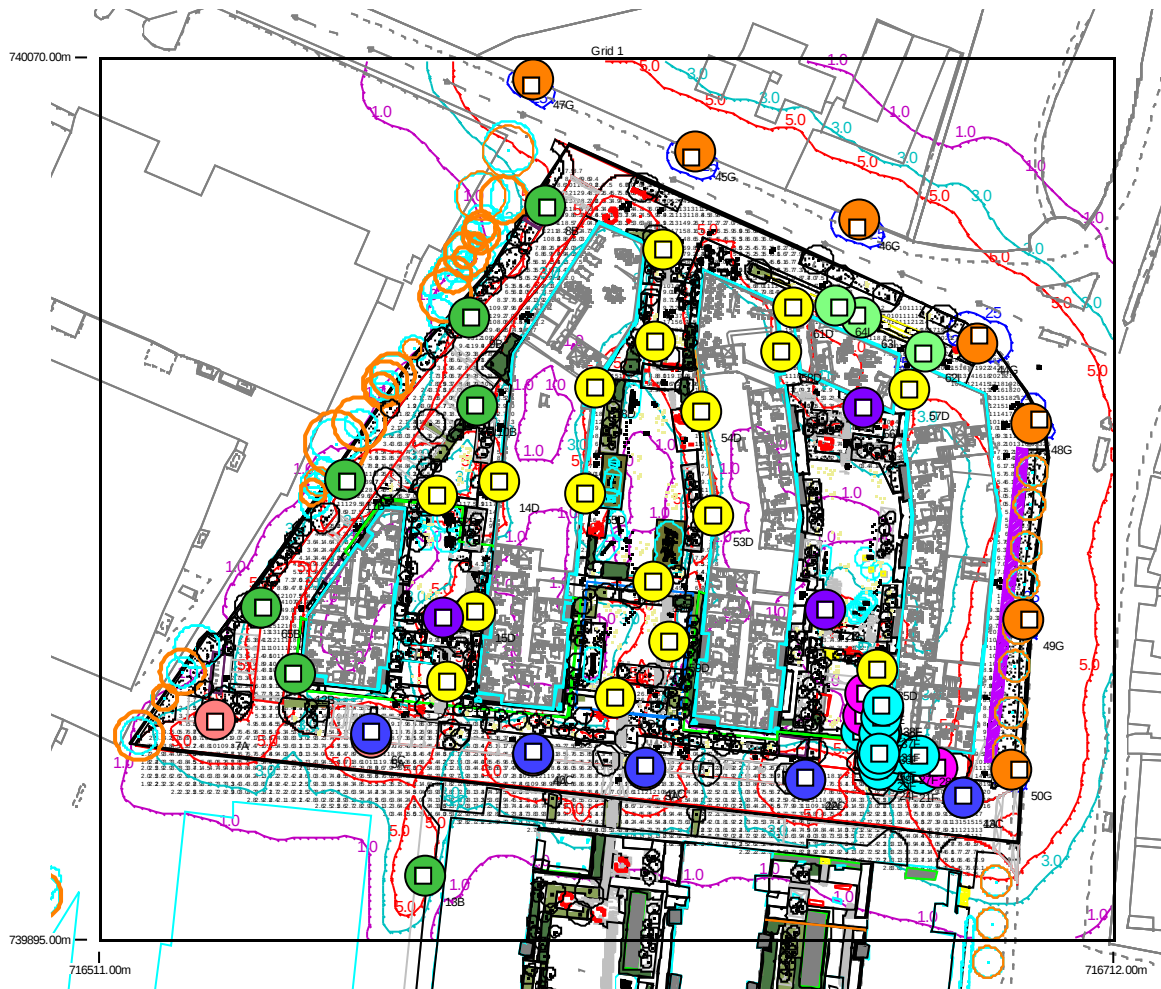
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	716681.89	739923.42	6.00	259.00	0.00	0.00	0.40			
2	A	716650.52	739927.08	6.00	262.00	0.00	0.00	0.40			
3	A	716619.01	739929.20	6.00	262.00	0.00	0.00	0.40			
4	A	716596.76	739931.89	6.00	262.00	0.00	0.00	0.40			
5	A	716564.77	739935.53	6.00	266.00	0.00	0.00	0.40			
6	C	716564.80	739936.07	6.00	82.00	0.00	0.00	0.40			
7	A	716533.84	739938.90	6.00	260.00	0.00	0.00	0.40			
8	B	716599.32	740040.67	6.00	328.00	0.00	0.00	0.40			
9	B	716584.13	740018.62	6.00	322.00	0.00	0.00	0.40			
10	B	716585.89	740001.03	6.00	145.00	0.00	0.00	0.40			
11	B	716559.74	739986.49	6.00	322.00	0.00	0.00	0.40			
12	B	716549.62	739948.02	6.00	173.00	0.00	0.00	0.40			
13	B	716575.53	739908.20	6.00	169.00	0.00	0.00	0.40			
14	D	716590.12	739986.05	5.00	179.00	0.00	0.00	0.00			
15	D	716585.24	739960.30	5.00	176.00	0.00	0.00	0.00			
16	D	716622.39	740031.85	5.00	353.00	0.00	0.00	0.00			
17	D	716620.90	740013.98	5.00	353.00	0.00	0.00	0.00			
18	D	716609.21	740004.64	5.00	339.00	0.00	0.00	0.00			
19	D	716620.40	739966.42	5.00	267.00	0.00	0.00	0.00			
20	D	716613.09	739943.53	5.00	353.00	0.00	0.00	0.00			
21	F	716669.45	739928.60	1.00	81.00	0.00	0.00	0.10			
22	F	716661.72	739936.60	1.00	350.00	0.00	0.00	0.10			
23	H	716654.50	739960.64	5.00	356.00	0.00	0.00	0.00			
24	F	716665.39	739929.06	1.00	83.00	0.00	0.00	0.10			
25	F	716673.65	739928.18	1.00	83.00	0.00	0.00	0.01			
26	E	716676.72	739929.66	1.00	167.00	0.00	0.00	0.01			
27	F	716669.27	739932.28	1.00	265.00	0.00	0.00	0.01			
28	F	716673.23	739931.73	1.00	268.00	0.00	0.00	0.01			
29	F	716664.78	739931.20	1.00	178.00	0.00	0.00	0.01			
30	F	716664.97	739933.28	1.00	174.00	0.00	0.00	0.01			
31	F	716665.68	739936.49	1.00	352.00	0.00	0.00	0.01			
32	F	716666.16	739940.83	1.00	352.00	0.00	0.00	0.01			
33	E	716662.12	739940.00	1.00	350.00	0.00	0.00	0.10			
34	E	716662.52	739944.14	1.00	355.00	0.00	0.00	0.10			
35	D	716665.10	739948.86	5.00	349.00	0.00	0.00	0.00			
36	F	716665.32	739936.30	1.00	173.00	0.00	0.00	0.10			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	F	716665.72	739939.42	1.00	173.00	0.00	0.00	0.10			
38	F	716665.97	739941.76	1.00	173.00	0.00	0.00	0.10			
39	F	716665.46	739932.37	1.00	352.00	0.00	0.00	0.01			
40	C	716596.82	739932.23	6.00	87.00	0.00	0.00	0.40			
41	C	716619.06	739929.52	6.00	87.00	0.00	0.00	0.40			
42	C	716650.56	739927.33	6.00	87.00	0.00	0.00	0.40			
43	C	716681.99	739923.69	6.00	87.00	0.00	0.00	0.40			
44	G	716684.52	740013.52	9.00	69.00	5.00	0.00	1.50			
45	G	716628.79	740051.42	9.00	248.00	5.00	0.00	1.50			
46	G	716661.50	740037.95	9.00	252.00	5.00	0.00	1.50			
47	G	716597.04	740065.64	9.00	243.00	5.00	0.00	1.50			
48	G	716695.48	739997.70	10.00	27.00	5.00	0.00	1.50			
49	G	716693.62	739958.96	10.00	356.00	5.00	0.00	1.50			
50	G	716691.39	739929.14	10.00	356.00	5.00	0.00	1.50			
51	D	716580.01	739946.72	5.00	176.00	0.00	0.00	0.00			
52	D	716577.94	739983.43	5.00	260.00	0.00	0.00	0.00			
53	D	716632.33	739979.27	5.00	176.00	0.00	0.00	0.00			
54	D	716630.11	739999.93	5.00	186.00	0.00	0.00	0.00			
55	D	716607.12	739983.74	5.00	352.00	0.00	0.00	0.00			
56	H	716662.22	740000.66	5.00	262.00	0.00	0.00	0.00			
57	D	716671.22	740004.35	5.00	170.00	0.00	0.00	0.00			
58	D	716646.11	740011.72	5.00	8.00	0.00	0.00	0.00			
59	D	716623.87	739954.46	5.00	176.00	0.00	0.00	0.00			
60	H	716578.99	739959.17	5.00	261.00	0.00	0.00	0.00			
61	D	716648.33	740020.54	5.00	66.00	0.00	0.00	0.00			
62	I	716674.30	740011.96	5.00	254.00	0.00	0.00	0.60			
63	I	716661.67	740018.64	5.00	156.00	0.00	0.00	0.90			
64	I	716656.77	740020.96	5.00	336.00	0.00	0.00	0.90			
65	B	716543.20	739961.18	6.00	338.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	7.75
Emin	1.63
Emax	112.30
Emin/Emax	0.01
Emin/Eav	0.21

