

DATE: 20 November 2024
DESIGNER: M Groves AMILP EngTech
PROJECT No: 20030297
PROJECT NAME: EVO20030297-AC-001-A

ENERVEO

Ford Airfield, Arun

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 01 - Road 01 - P3	499076.37	102504.52	99.22	51.57	1.48	1.47
2	Grid 02 - Road 01 - P3	499151.07	102566.32	79.88	51.57	1.48	1.47
3	Grid 03 - Road 01 - P3	499211.59	102616.21	79.88	51.57	1.48	1.47
4	Grid 04 - Road 01 - P3	499229.83	102690.02	105.29	51.57	1.48	1.47
5	Grid 05 - Road 01 - P3	499223.94	102792.35	105.29	51.57	1.48	1.47
6	Grid 06 - Road 01 - P3	499218.91	102895.19	105.29	51.57	1.48	1.47
7	Grid 07 - Road 01 - P3	499216.41	103001.06	56.47	51.57	1.49	1.47
8	Grid 08 - Road 01 - P3	499208.82	103056.62	85.64	51.57	1.48	1.47
9	Grid 09 - Road 01 - P3	499165.17	103129.89	85.64	51.57	1.48	1.47
10	Grid 10 - Road 01 - P3	499104.54	103165.08	85.64	51.57	1.48	1.47
11	Grid 11 - Road 01 - P3	499053.12	103231.03	85.64	51.57	1.48	1.47
12	Grid 12 - Road 01 - P3	499006.85	103292.02	85.64	51.57	1.48	1.47
13	Grid 13 - Road 01 - P3	498972.64	103355.85	124.86	51.57	1.49	1.47
14	Grid 14 - Road 01 - P3	498941.65	103464.21	124.86	51.57	1.49	1.47
15	Grid 15 - Road 01 - P3	498930.05	103576.23	124.86	51.57	1.49	1.47
16	Grid 16 - Road 01 - P3	498946.95	103697.22	124.86	51.57	1.49	1.47
17	Grid 17 - Road 01 - P3	498960.91	103818.34	66.50	51.57	1.48	1.47

Luminaires

Luminaire A Data

Supplier	
Type	AXIA 3.1 5267 Integrated lenses 16 OSLO N SQUARE GIANT@600mA
Lamp(s)	16 OSLO N SQUARE GIANT@600mA NW 740 230V 01-37-043
LampFlux(klm)/Colour	4.60 NW 4000K/70
File Name	AXIA 3.1 5267 16 LED 600mA NW 740 30. 8W 429102 230V TF.Idt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	985.2, 145.1, 0.0
No. in Project	29

Luminaire B Data

Supplier	
Type	AXIA 3.1 5296 Integrated lenses 16 OSLO N SQUARE GIANT@300mA
Lamp(s)	16 OSLO N SQUARE GIANT@300mA NW 740 230V 01-37-041
LampFlux(klm)/Colour	2.51 NW 4000K/70
File Name	AXIA 3.1 5296 16 LED 300mA NW 740 16. 1W 436952 230V TF.Idt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1243.8, 38.3, 0.0
No. in Project	2

Luminaire C Data

Supplier	
Type	AXIA 3.1 5267 Integrated lenses Rear louvers 16 OSLO N SQUARE
Lamp(s)	16 OSLO N SQUARE GIANT@870mA NW 740 230V 00-53-397
LampFlux(klm)/Colour	4.48 NW 4000K/70
File Name	AXIA 3.1 5267 16 LED 870mA NW 740 44 W 457672 BL 230V TF.Idt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1281.8, 174.5, 0.0
No. in Project	15

Luminaire D Data

Supplier	
Type	AXIA 3.1 5296 Integrated lenses Rear louvers 8 OSLO N SQUARE G
Lamp(s)	8 OSLO N SQUARE GIANT@850mA NW 740 230V 00-53-394
LampFlux(klm)/Colour	2.41 NW 4000K/70
File Name	AXIA 3.1 5296 8 LED 850mA NW 740 22.8 W 457602 BL 230V TF.Idt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1285.9, 28.2, 0.0
No. in Project	44

Luminaires

Luminaire E Data

Supplier	
Type	AXIA 3.1 5270 Integrated lenses 16 OSLO N SQUARE GIANT@600mA
Lamp(s)	16 OSLO SQUARE GIANT@600mA NW 740 230V 01-37-043
LampFlux(klm)/Colour	4.72 NW 4000K/70
File Name	AXIA 3.1 5270 16 LED 600mA NW 740 30. 8W 429112 230V TF.Idt
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1022.0, 99.2, 0.0
No. in Project	7

Luminaire M Data

Supplier	
Type	AXIA 3.2 5266 Integrated lenses Rear louv ers 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@700mA WW 727 230V 02-58-000
LampFlux(klm)/Colour	5.02 WW 2700K/70
File Name	AXIA 3.2 5266 24 OSLO SQUARE GIAN T 700mA WW 727 52.5W 478612 Integrat...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1284.3, 145.1, 0.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	499089.18	102538.80	6.00	130.00	0.00	0.00	0.40	75%			
2	D	499082.20	102558.40	6.00	309.00	0.00	0.00	0.40	75%			
3	C	499110.96	102550.89	6.00	128.00	0.00	0.00	0.40	75%			
4	D	499111.06	102582.04	6.00	311.00	0.00	0.00	0.40	75%			
5	A	499132.09	102588.89	6.00	310.00	0.00	0.00	0.40	75%			
6	D	499138.66	102604.52	6.00	309.00	0.00	0.00	0.40	90%			
7	A	499155.98	102607.69	6.00	309.00	0.00	0.00	0.40	90%			
8	D	499168.16	102628.65	6.00	308.00	0.00	0.00	0.40	90%			
9	E	499205.25	102646.49	6.00	159.00	0.00	0.00	0.40	80%			
10	B	499185.17	102650.23	6.00	329.00	0.00	0.00	0.40	80%			
11	D	499207.51	102634.94	6.00	148.00	0.00	0.00	0.40	80%			
15	C	499129.02	102565.53	6.00	130.00	0.00	0.00	0.40	75%			
16	A	499186.83	102618.53	6.00	138.00	0.00	0.00	0.40	90%			
14	E	499199.69	102685.33	6.00	2.00	0.00	0.00	0.40	80%			
15	D	499219.18	102670.13	6.00	174.00	0.00	0.00	0.40	80%			
16	B	499189.35	102682.14	6.00	2.00	0.00	0.00	0.40	80%			
17	D	499218.21	102703.91	6.00	185.00	0.00	0.00	0.40	100%			
18	A	499197.70	102723.87	6.00	5.00	0.00	0.00	0.40	100%			
19	D	499187.39	102721.68	6.00	3.00	0.00	0.00	0.40	100%			
20	A	499204.22	102765.09	6.00	187.00	0.00	0.00	0.40	100%			
21	A	499193.99	102802.60	6.00	3.00	0.00	0.00	0.40	90%			
22	D	499216.40	102740.90	6.00	184.00	0.00	0.00	0.40	100%			
23	D	499185.59	102757.88	6.00	2.00	0.00	0.00	0.40	100%			
24	D	499183.74	102796.52	6.00	4.00	0.00	0.00	0.40	90%			
25	D	499214.41	102781.02	6.00	184.00	0.00	0.00	0.40	100%			
26	D	499212.70	102814.76	6.00	184.00	0.00	0.00	0.40	90%			
27	A	499200.37	102842.09	6.00	181.00	0.00	0.00	0.40	90%			
28	A	499190.16	102878.69	6.00	5.00	0.00	0.00	0.40	90%			
29	D	499210.76	102854.72	6.00	186.00	0.00	0.00	0.40	90%			
30	D	499181.72	102836.47	6.00	2.00	0.00	0.00	0.40	90%			
31	D	499209.05	102889.71	6.00	186.00	0.00	0.00	0.40	90%			
32	D	499179.88	102874.42	6.00	3.00	0.00	0.00	0.40	90%			
33	A	499197.14	102906.40	6.00	184.00	0.00	0.00	0.40	85%			
34	E	499186.95	102941.97	6.00	4.00	0.00	0.00	0.40	85%			
35	D	499201.25	102933.70	6.00	183.00	0.00	0.00	0.40	85%			
36	D	499177.88	102914.37	6.00	3.00	0.00	0.00	0.40	85%			

Layout Continued

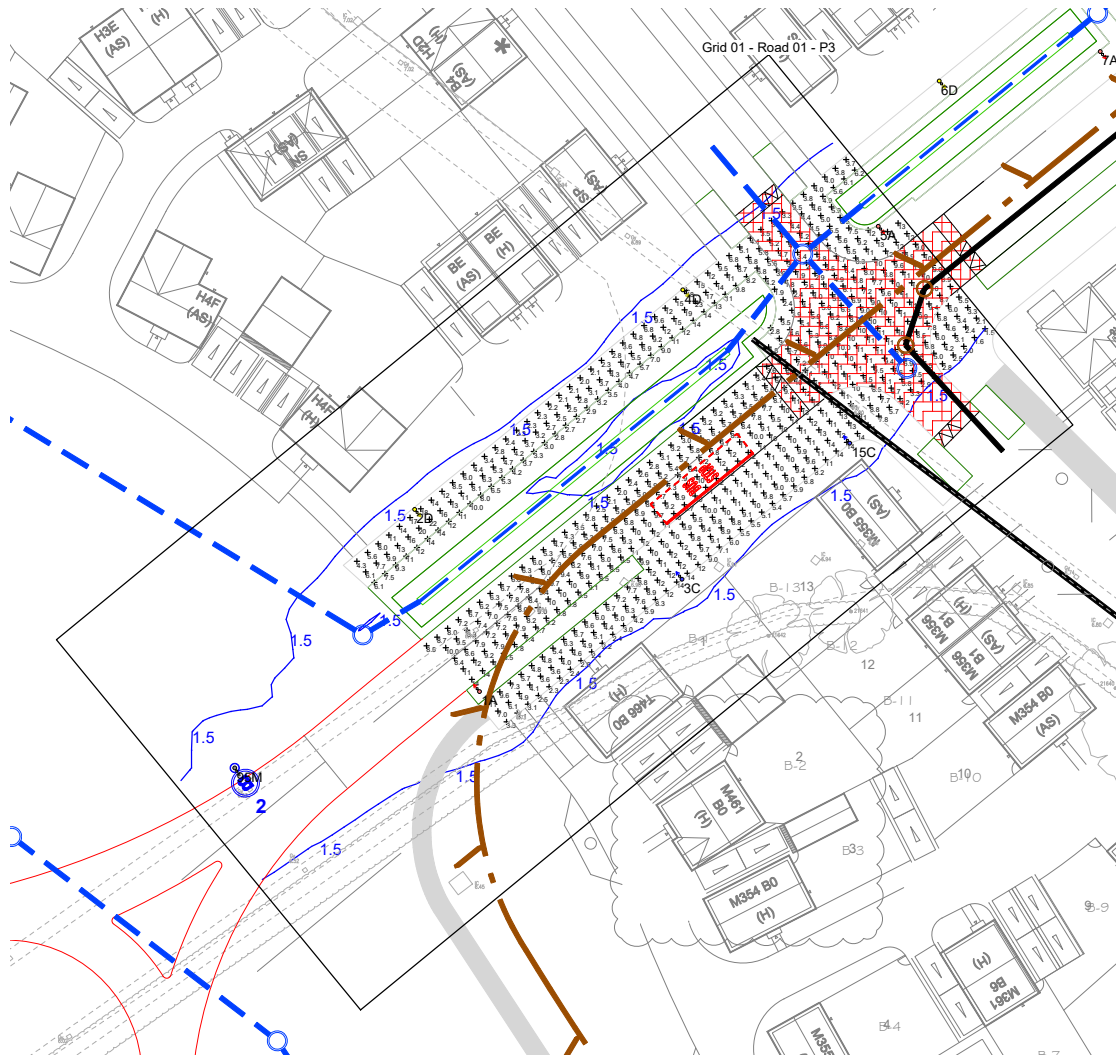
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
37	E	499184.93	102982.60	6.00	4.00	0.00	0.00	0.40	85%			
38	D	499199.32	102973.65	6.00	184.00	0.00	0.00	0.40	85%			
39	D	499175.88	102954.32	6.00	3.00	0.00	0.00	0.40	85%			
40	D	499173.93	102994.28	6.00	5.00	0.00	0.00	0.40	85%			
41	D	499197.34	103013.61	6.00	184.00	0.00	0.00	0.40	70%			
42	E	499181.61	103009.92	6.00	3.00	0.00	0.00	0.40	70%			
43	D	499174.12	103030.73	6.00	347.00	0.00	0.00	0.40	70%			
44	C	499193.89	103055.93	6.00	201.00	0.00	0.00	0.40	70%			
45	C	499165.57	103062.94	6.00	37.00	0.00	0.00	0.40	70%			
46	E	499152.39	103089.85	6.00	41.00	0.00	0.00	0.40	70%			
47	D	499175.48	103082.43	6.00	218.00	0.00	0.00	0.40	70%			
48	A	499190.63	103038.65	6.00	184.00	0.00	0.00	0.40	70%			
49	A	499141.88	103117.74	6.00	219.00	0.00	0.00	0.40	70%			
50	D	499157.08	103106.66	6.00	218.00	0.00	0.00	0.40	70%			
51	E	499116.67	103133.32	6.00	54.00	0.00	0.00	0.40	70%			
52	D	499130.09	103140.45	6.00	228.00	0.00	0.00	0.40	70%			
53	C	499113.85	103153.84	6.00	247.00	0.00	0.00	0.40	70%			
54	C	499094.06	103140.08	6.00	66.00	0.00	0.00	0.40	70%			
55	A	499073.65	103152.12	6.00	59.00	0.00	0.00	0.40	85%			
56	A	499056.58	103183.95	6.00	216.00	0.00	0.00	0.40	85%			
57	D	499069.12	103174.08	6.00	214.00	0.00	0.00	0.40	85%			
58	A	499030.73	103205.59	6.00	36.00	0.00	0.00	0.40	85%			
59	D	499046.73	103207.38	6.00	213.00	0.00	0.00	0.40	85%			
60	A	499017.69	103239.14	6.00	216.00	0.00	0.00	0.40	70%			
61	D	499025.98	103236.79	6.00	216.00	0.00	0.00	0.40	70%			
62	A	498992.39	103260.29	6.00	34.00	0.00	0.00	0.40	70%			
63	D	499006.01	103265.05	6.00	216.00	0.00	0.00	0.40	70%			
64	C	498991.82	103285.04	6.00	212.00	0.00	0.00	0.40	80%			
65	C	498971.46	103285.30	6.00	33.00	0.00	0.00	0.40	80%			
66	A	498963.62	103323.24	6.00	202.00	0.00	0.00	0.40	80%			
67	D	498976.04	103310.30	6.00	210.00	0.00	0.00	0.40	80%			
68	C	498940.87	103354.09	6.00	16.00	0.00	0.00	0.40	80%			
69	D	498964.03	103342.35	6.00	200.00	0.00	0.00	0.40	80%			
70	A	498941.92	103391.19	6.00	199.00	0.00	0.00	0.40	95%			
71	D	498951.98	103375.89	6.00	200.00	0.00	0.00	0.40	95%			
72	A	498936.55	103421.96	6.00	198.00	0.00	0.00	0.40	95%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
73	A	498916.82	103452.07	6.00	14.00	0.00	0.00	0.40	95%			
74	A	498918.92	103486.01	6.00	185.00	0.00	0.00	0.40	95%			
75	D	498929.06	103461.31	6.00	194.00	0.00	0.00	0.40	95%			
76	A	498906.49	103514.74	6.00	8.00	0.00	0.00	0.40	95%			
77	A	498912.45	103548.93	6.00	183.00	0.00	0.00	0.40	95%			
78	A	498903.37	103581.70	6.00	1.00	0.00	0.00	0.40	95%			
79	D	498920.20	103517.13	6.00	188.00	0.00	0.00	0.40	95%			
80	A	498913.27	103614.23	6.00	173.00	0.00	0.00	0.40	90%			
81	D	498917.36	103562.37	6.00	183.00	0.00	0.00	0.40	95%			
82	A	498908.15	103647.84	6.00	353.00	0.00	0.00	0.40	90%			
83	D	498917.92	103602.37	6.00	180.00	0.00	0.00	0.40	90%			
84	D	498921.45	103642.21	6.00	176.00	0.00	0.00	0.40	90%			
85	C	498927.21	103678.38	6.00	170.00	0.00	0.00	0.40	90%			
86	D	498909.42	103679.81	6.00	347.00	0.00	0.00	0.40	90%			
87	C	498916.35	103714.34	6.00	348.00	0.00	0.00	0.40	85%			
88	C	498937.64	103712.12	6.00	170.00	0.00	0.00	0.40	85%			
89	C	498921.76	103751.08	6.00	353.00	0.00	0.00	0.40	85%			
90	D	498942.83	103747.81	6.00	174.00	0.00	0.00	0.40	85%			
91	A	498936.65	103781.64	6.00	175.00	0.00	0.00	0.40	85%			
92	D	498945.75	103783.69	6.00	177.00	0.00	0.00	0.40	85%			
93	A	498931.45	103815.24	6.00	353.00	0.00	0.00	0.40	85%			
94	D	498949.58	103819.49	6.00	172.00	0.00	0.00	0.40	85%			
95	M	499062.83	102530.57	8.00	303.00	0.00	0.00	0.40	70%			
96	M	498936.93	103867.26	8.00	354.00	0.00	0.00	0.40	70%			
97	C	498930.62	103838.42	8.00	352.00	0.00	0.00	0.40	70%			
98	C	498952.88	103843.29	8.00	173.00	0.00	0.00	0.40	70%			
99	D	499161.36	102591.91	6.00	128.00	0.00	0.00	0.40	90%			

Horizontal Illuminance (lux)

Grid 01 - Road 01 - P3

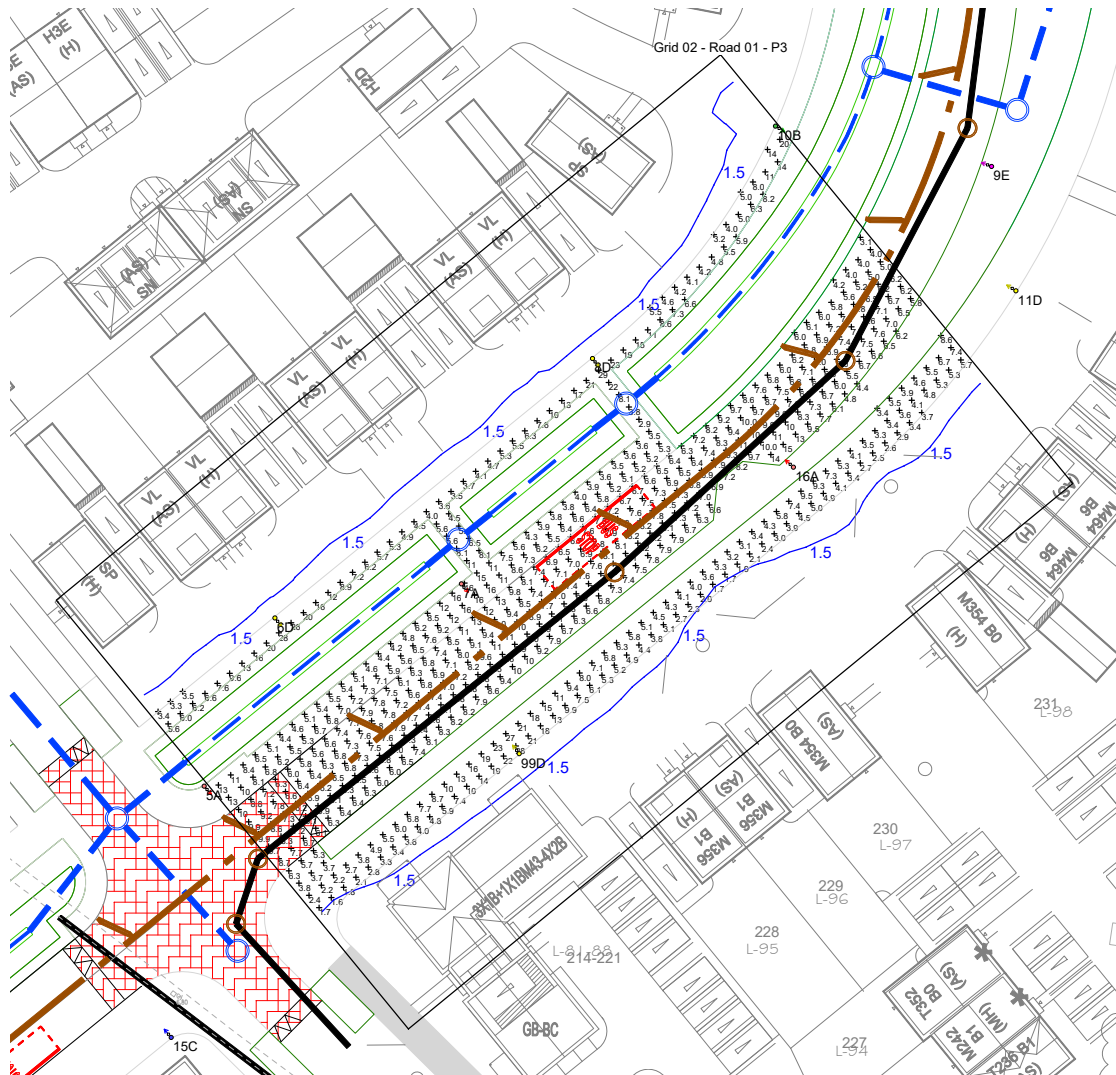


Results

Eav	7.77
Emin	1.50
Emax	23.31
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 02 - Road 01 - P3

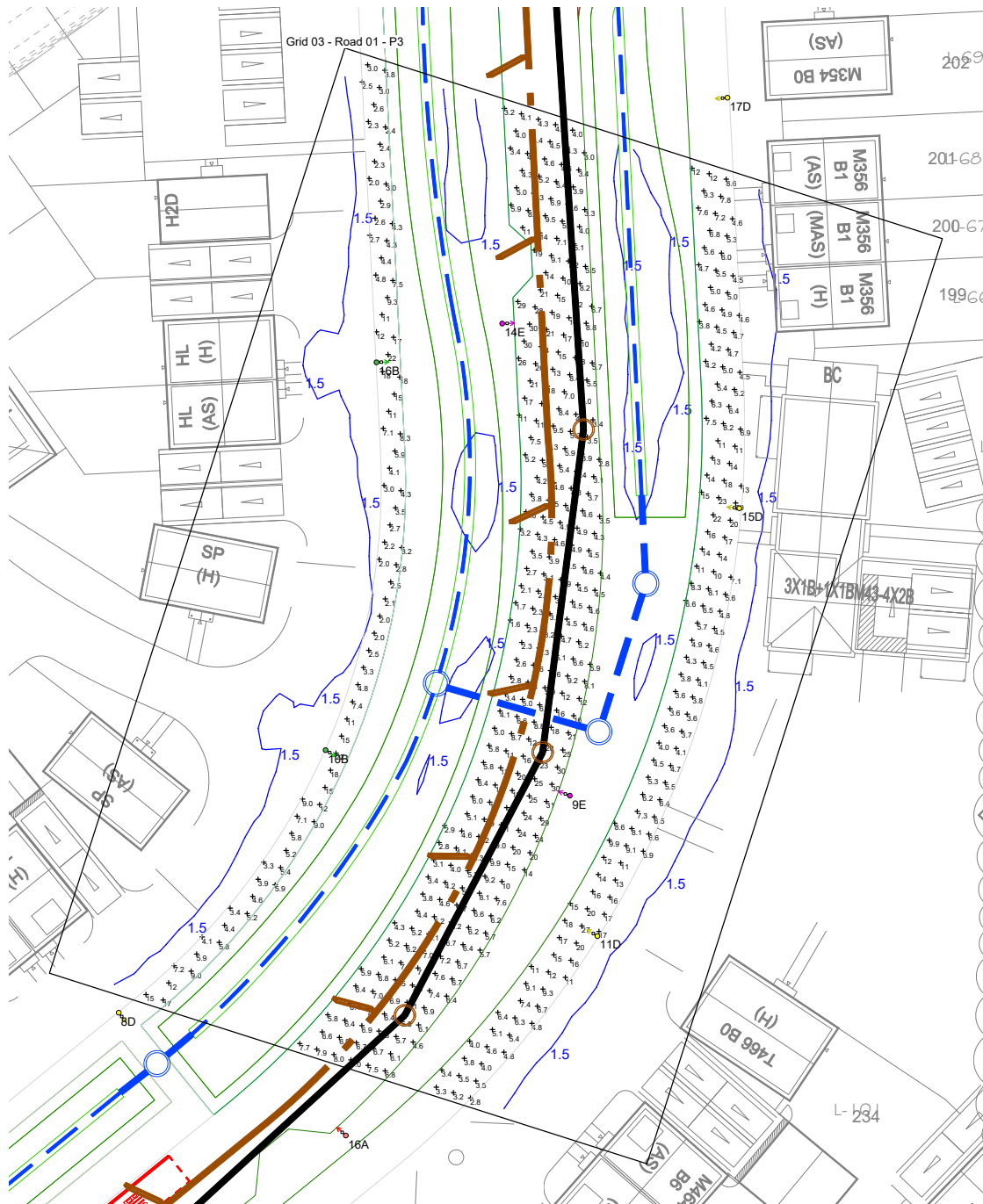


Results

Eav	7.50
Emin	1.62
Emax	29.48
Emin/Emax	0.05
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 03 - Road 01 - P3

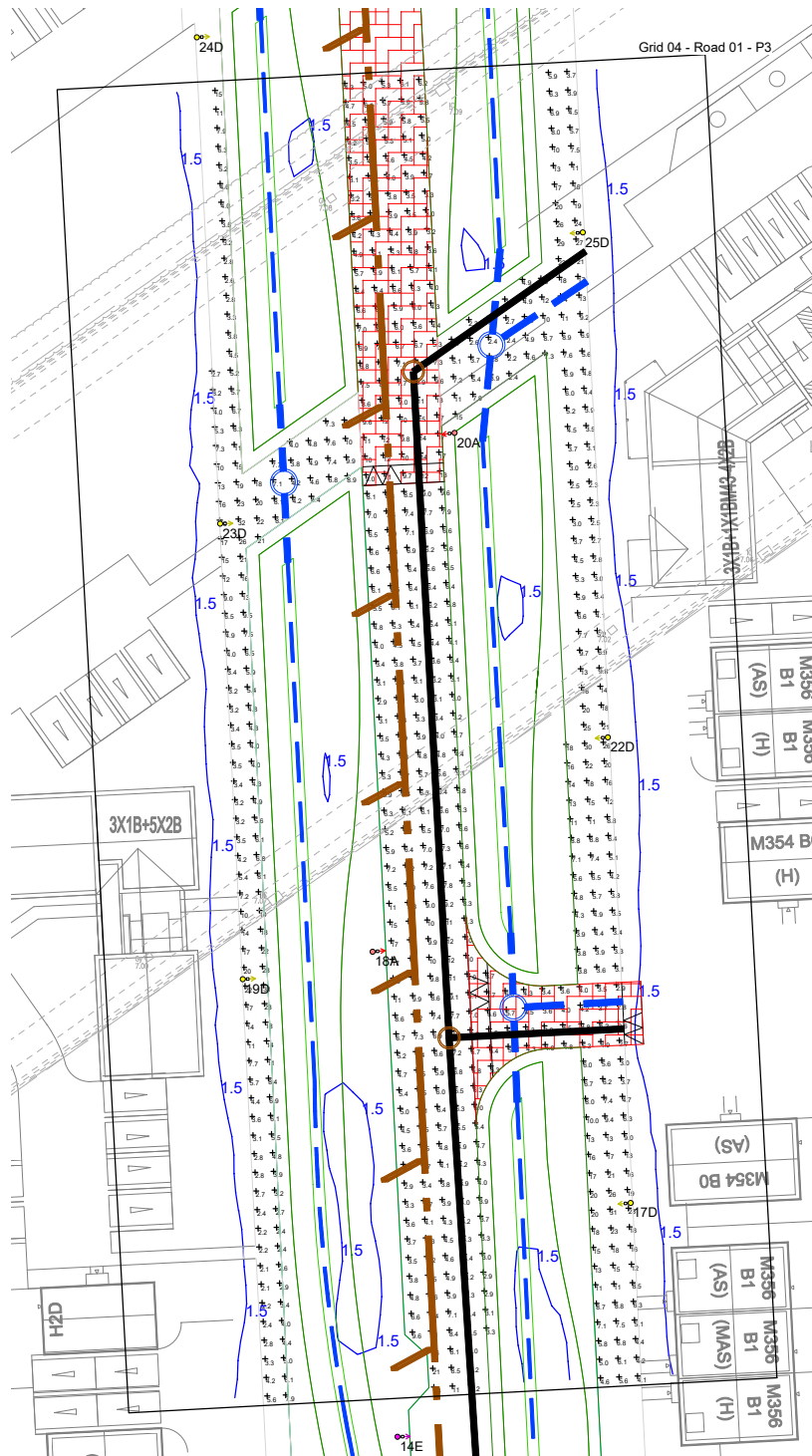


Results

Eav	8.20
Emin	1.60
Emax	30.65
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 04 - Road 01 - P3

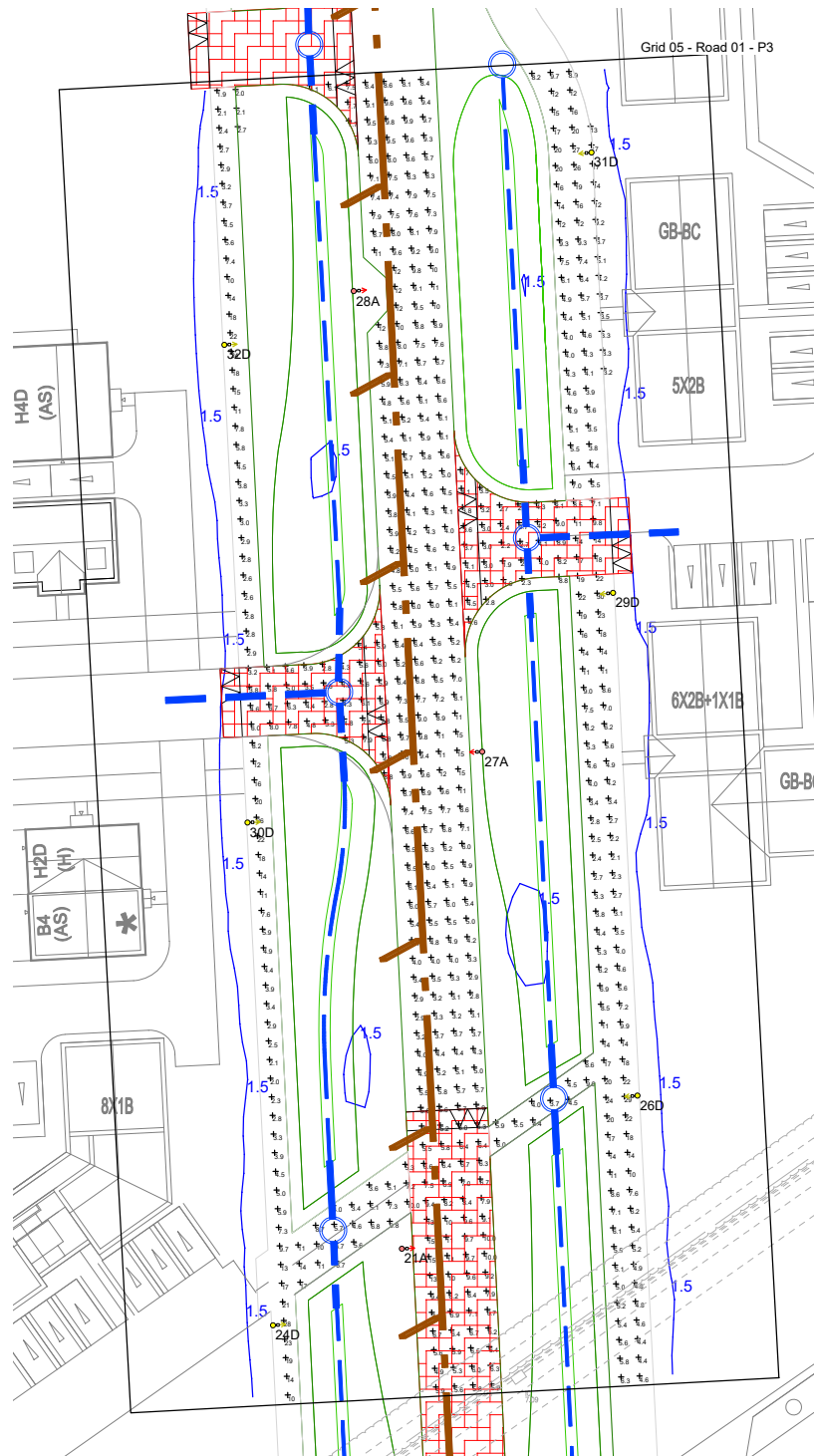


Results

Eav	7.61
Emin	1.92
Emax	32.39
Emin/Emax	0.06
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 05 - Road 01 - P3

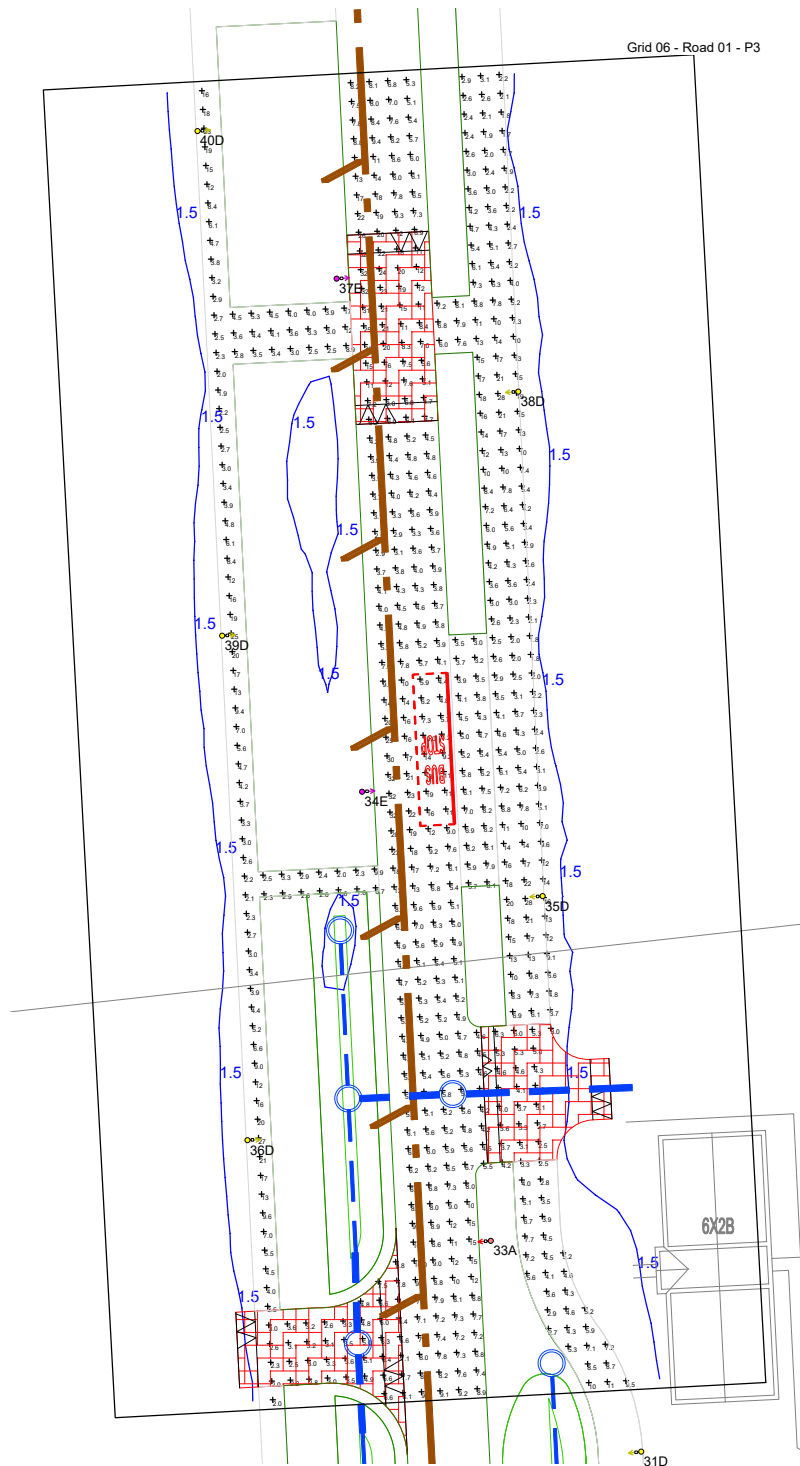


Results

Eav	7.53
Emin	1.57
Emax	29.83
Emin/Emax	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 06 - Road 01 - P3

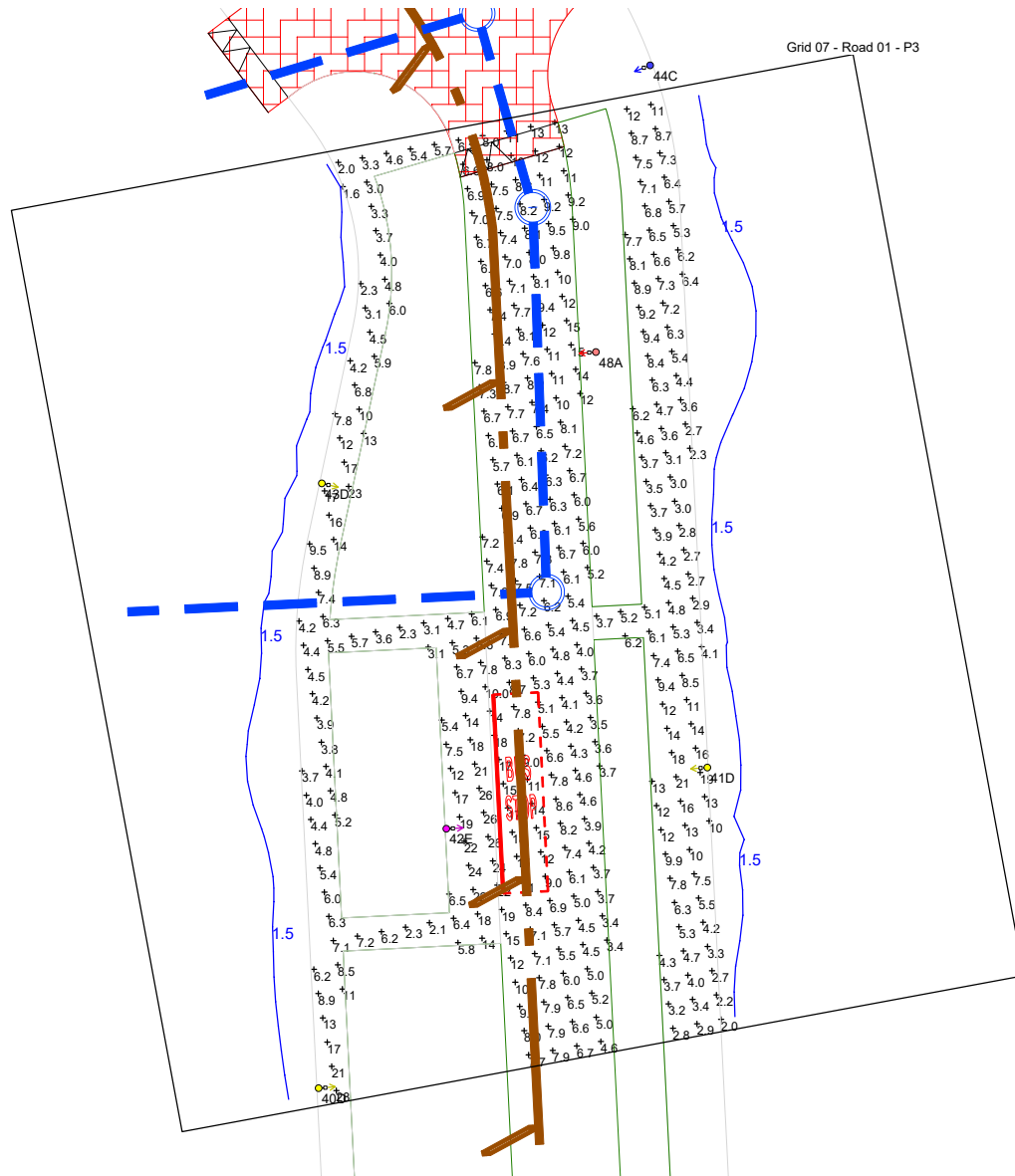


Results

Eav	7.71
Emin	1.55
Emax	32.27
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 07 - Road 01 - P3

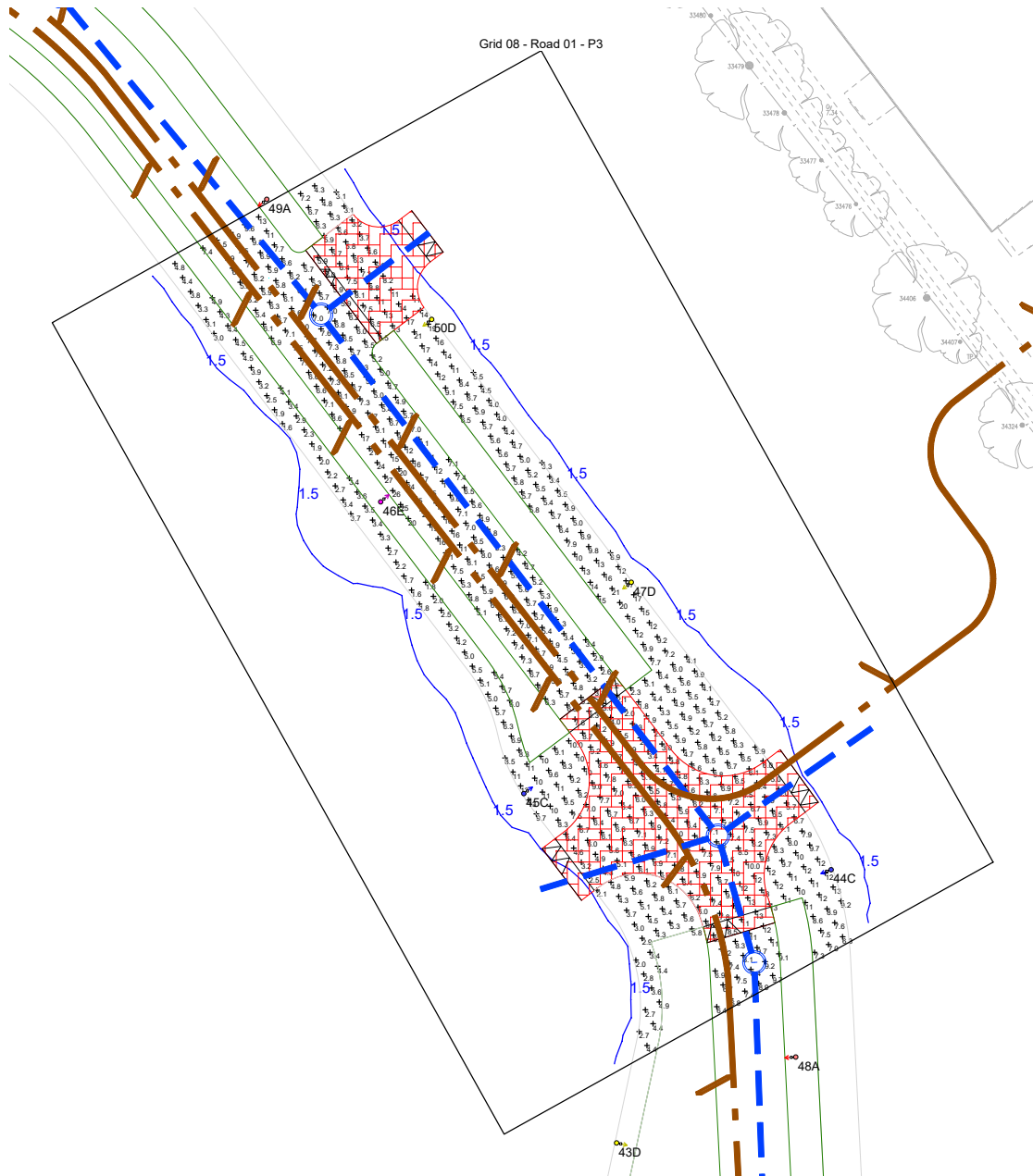


Results

Eav	8.05
Emin	1.59
Emax	27.65
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 08 - Road 01 - P3

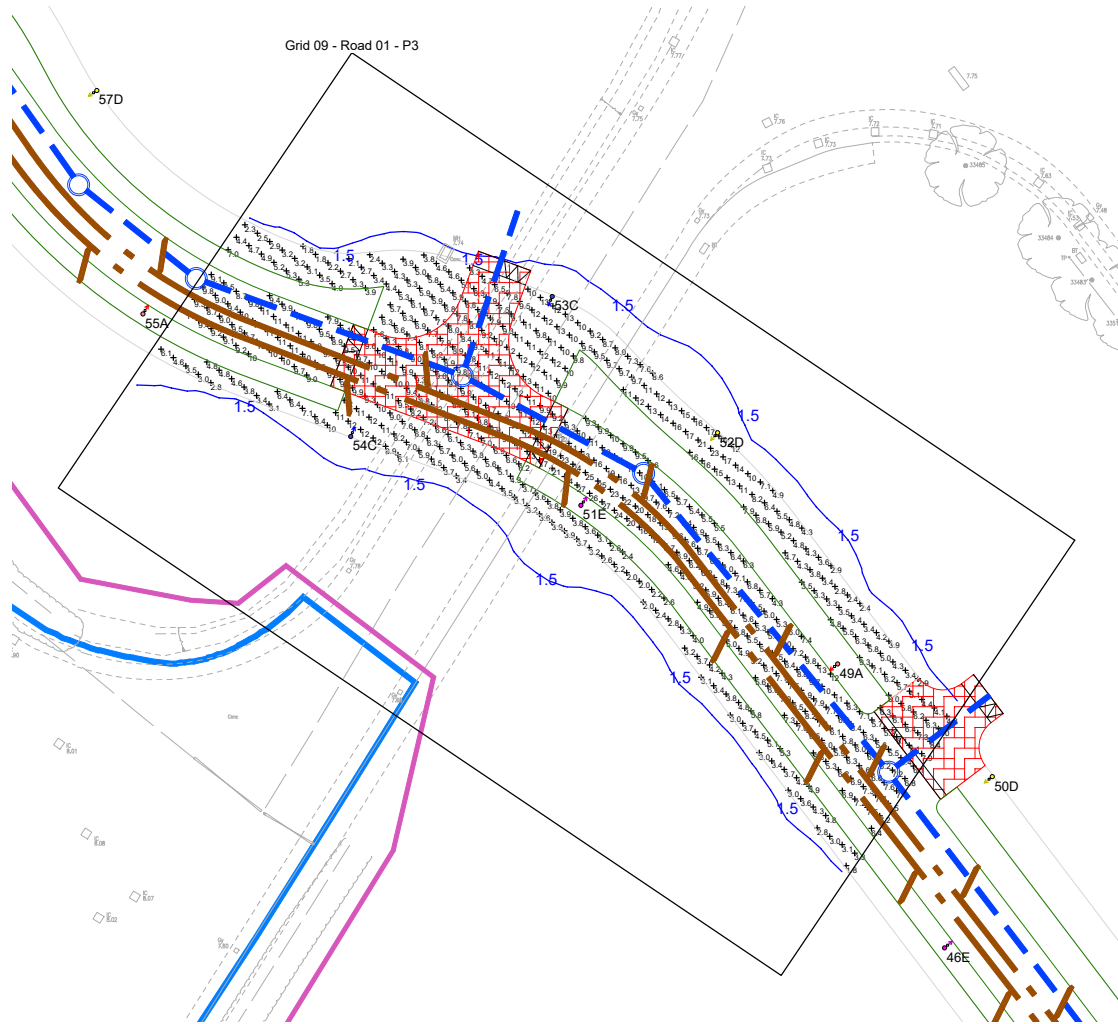


Results

Eav	7.32
Emin	1.62
Emax	26.78
Emin/Emax	0.06
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 09 - Road 01 - P3

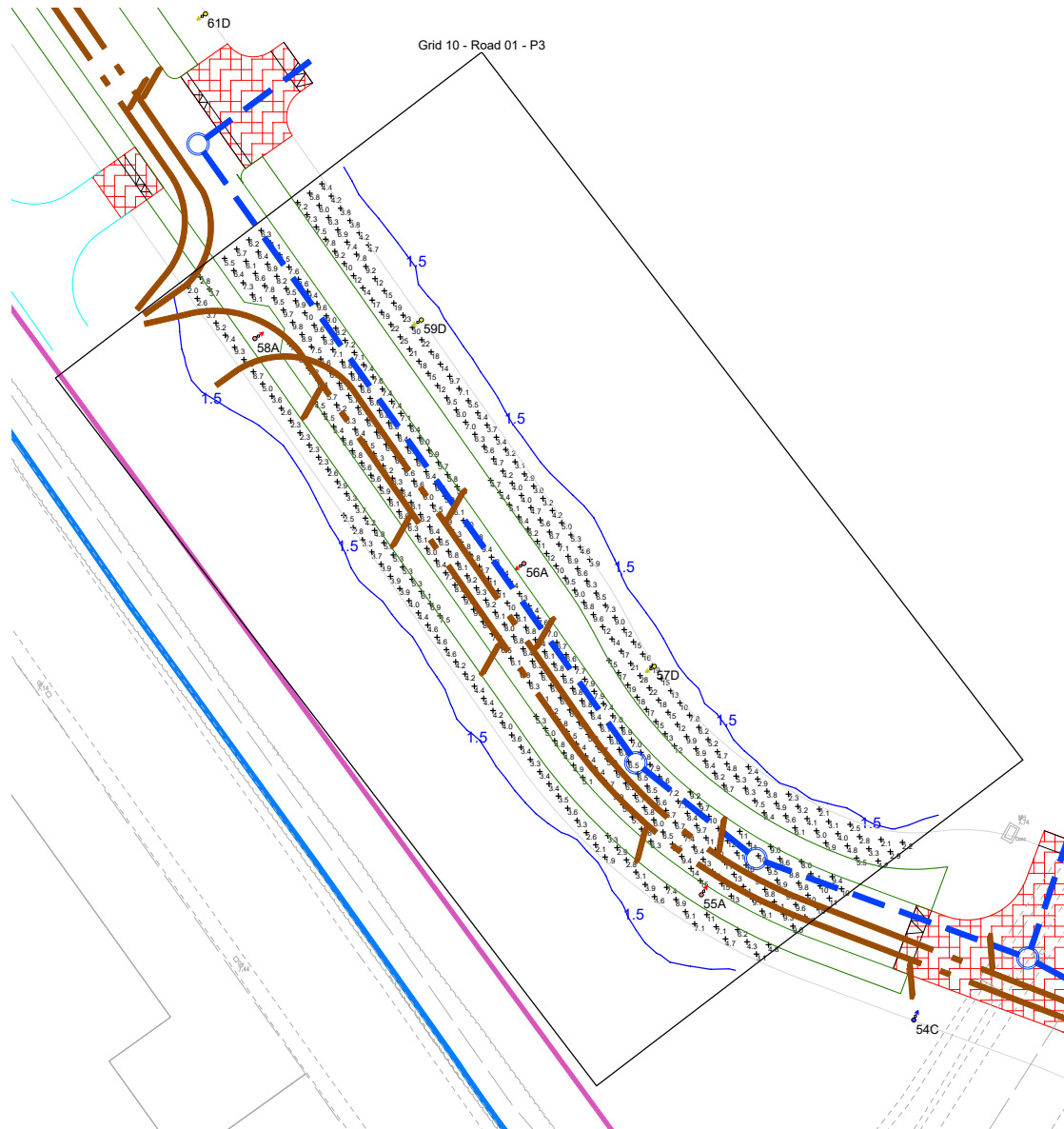


Results

Eav	7.99
Emin	1.75
Emax	27.05
Emin/Emax	0.06
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 10 - Road 01 - P3

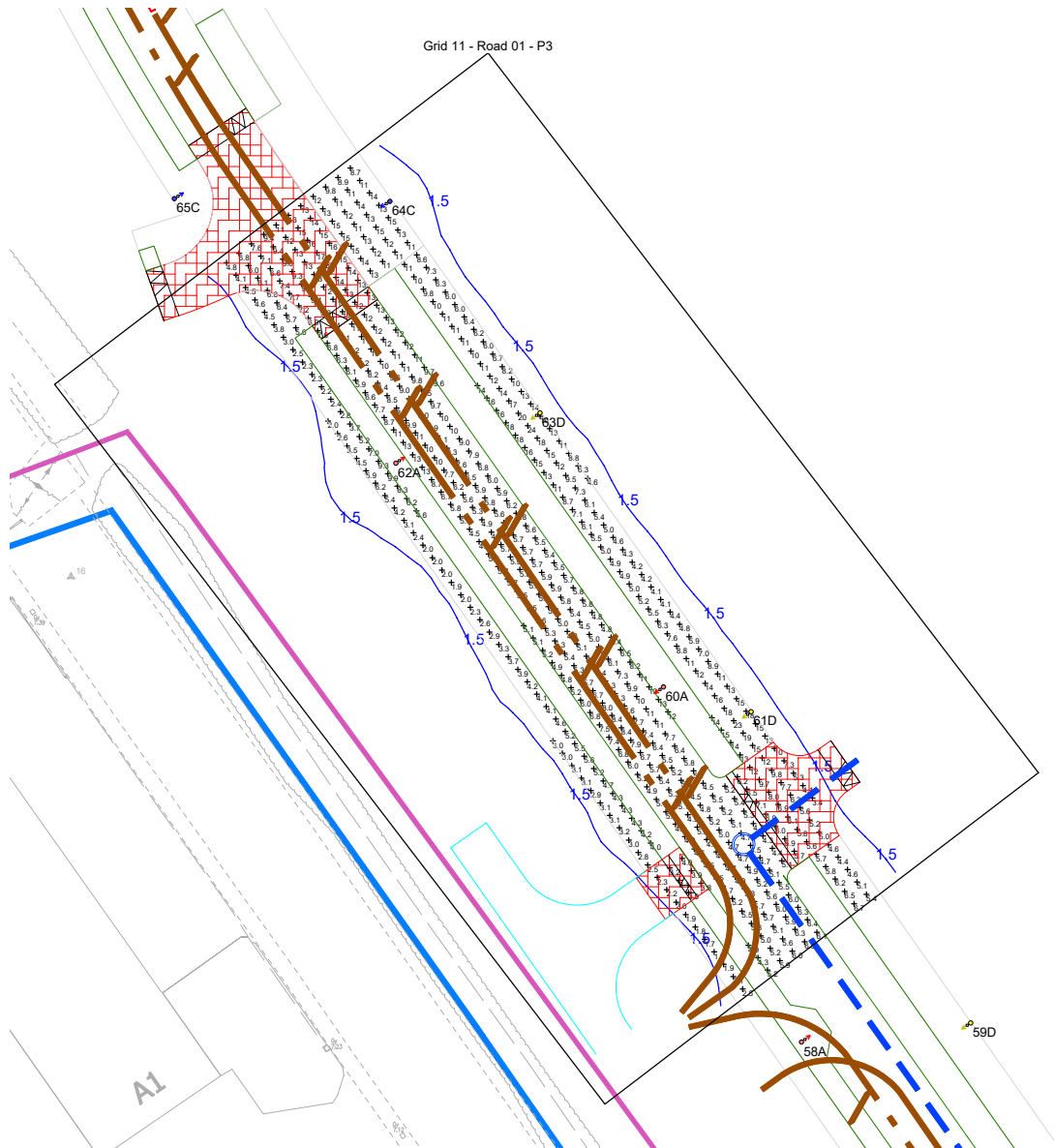


Results

Eav	7.57
Emin	1.89
Emax	29.77
Emin/Emax	0.06
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 11 - Road 01 - P3

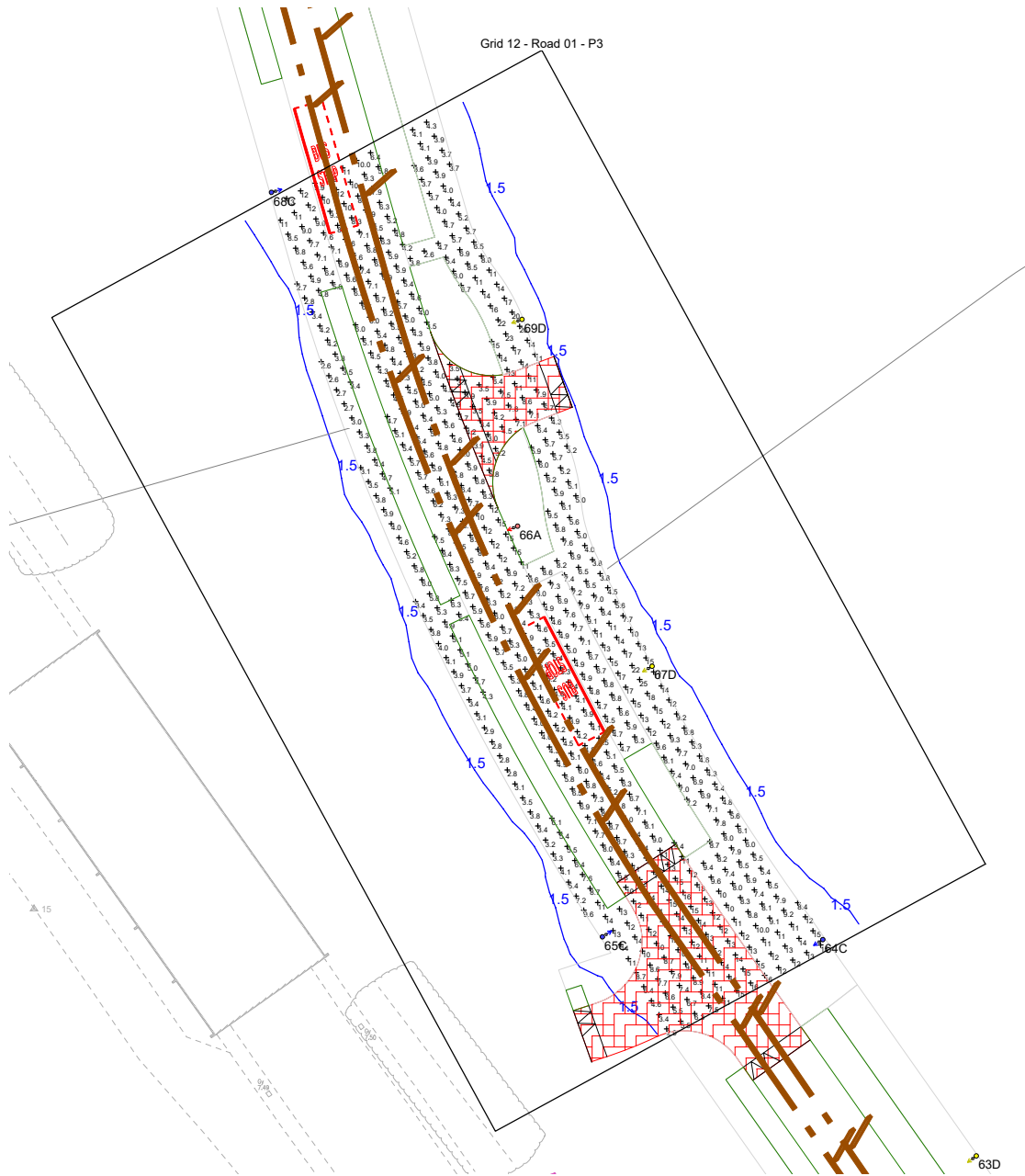


Results

Eav	7.59
Emin	1.68
Emax	24.17
Emin/Emax	0.07
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 12 - Road 01 - P3

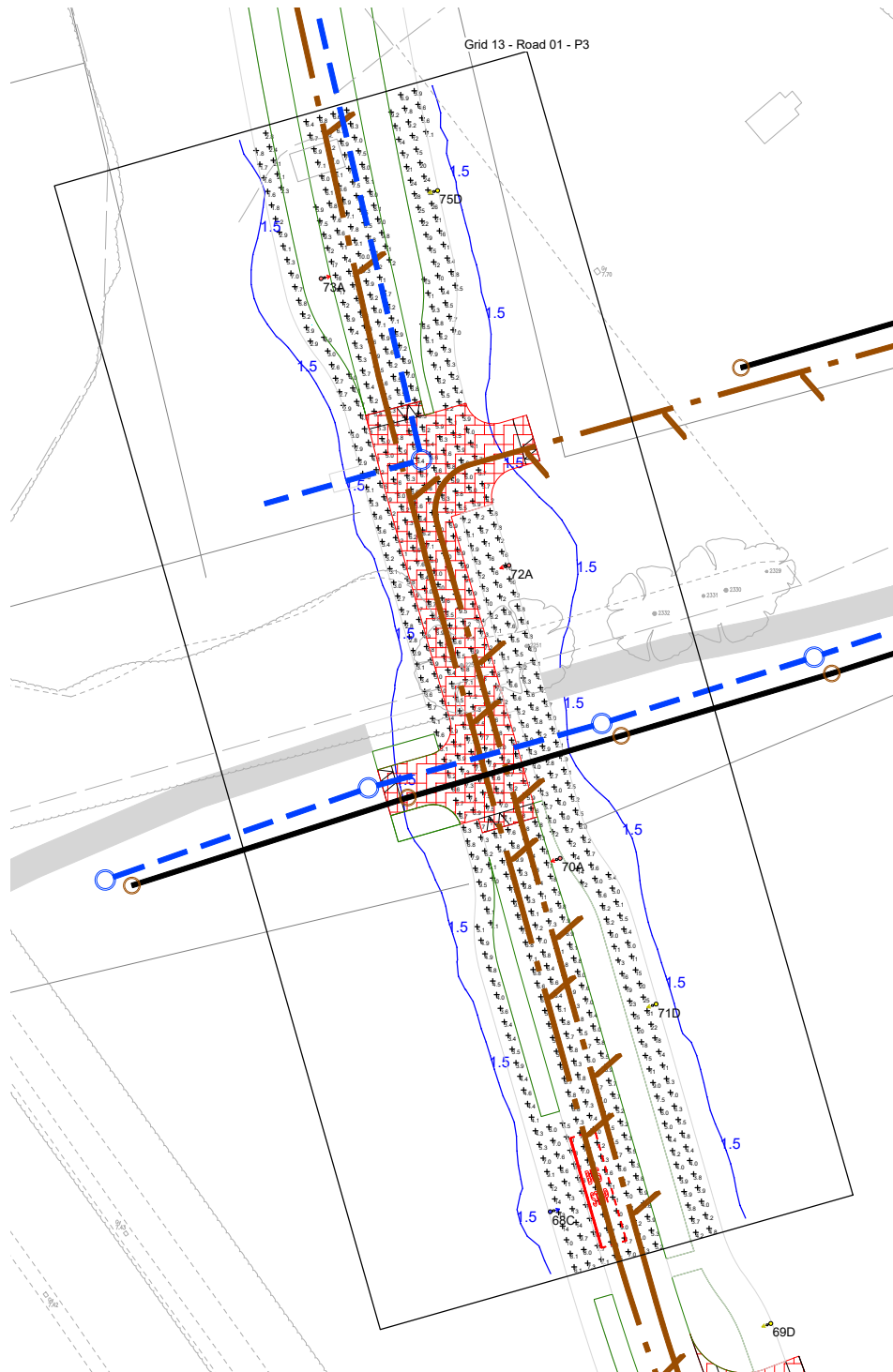


Results

Eav	7.60
Emin	2.56
Emax	25.29
Emin/Emax	0.10
Emin/Eav	0.34

Horizontal Illuminance (lux)

Grid 13 - Road 01 - P3

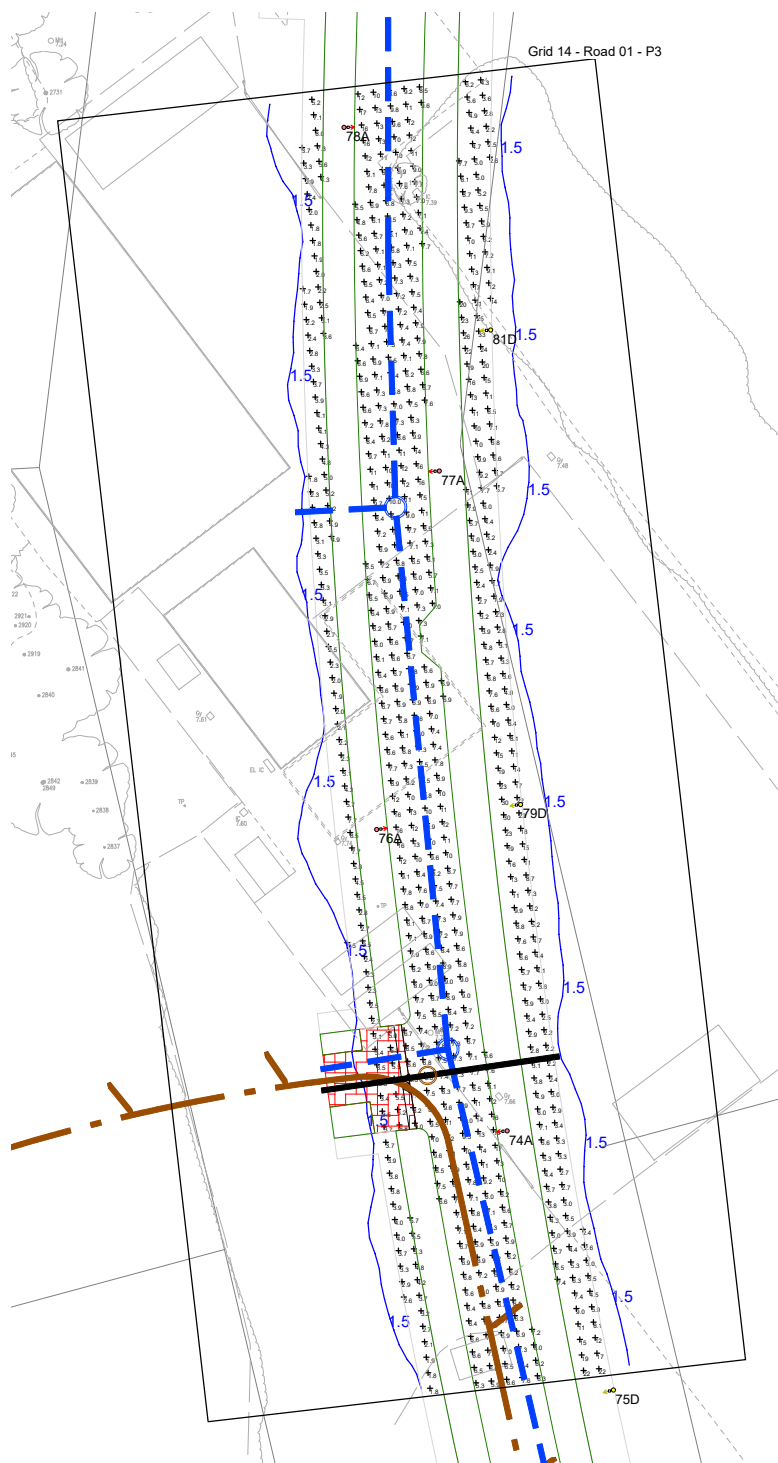


Results

Eav	7.67
Emin	1.58
Emax	31.85
Emin/Emax	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 14 - Road 01 - P3

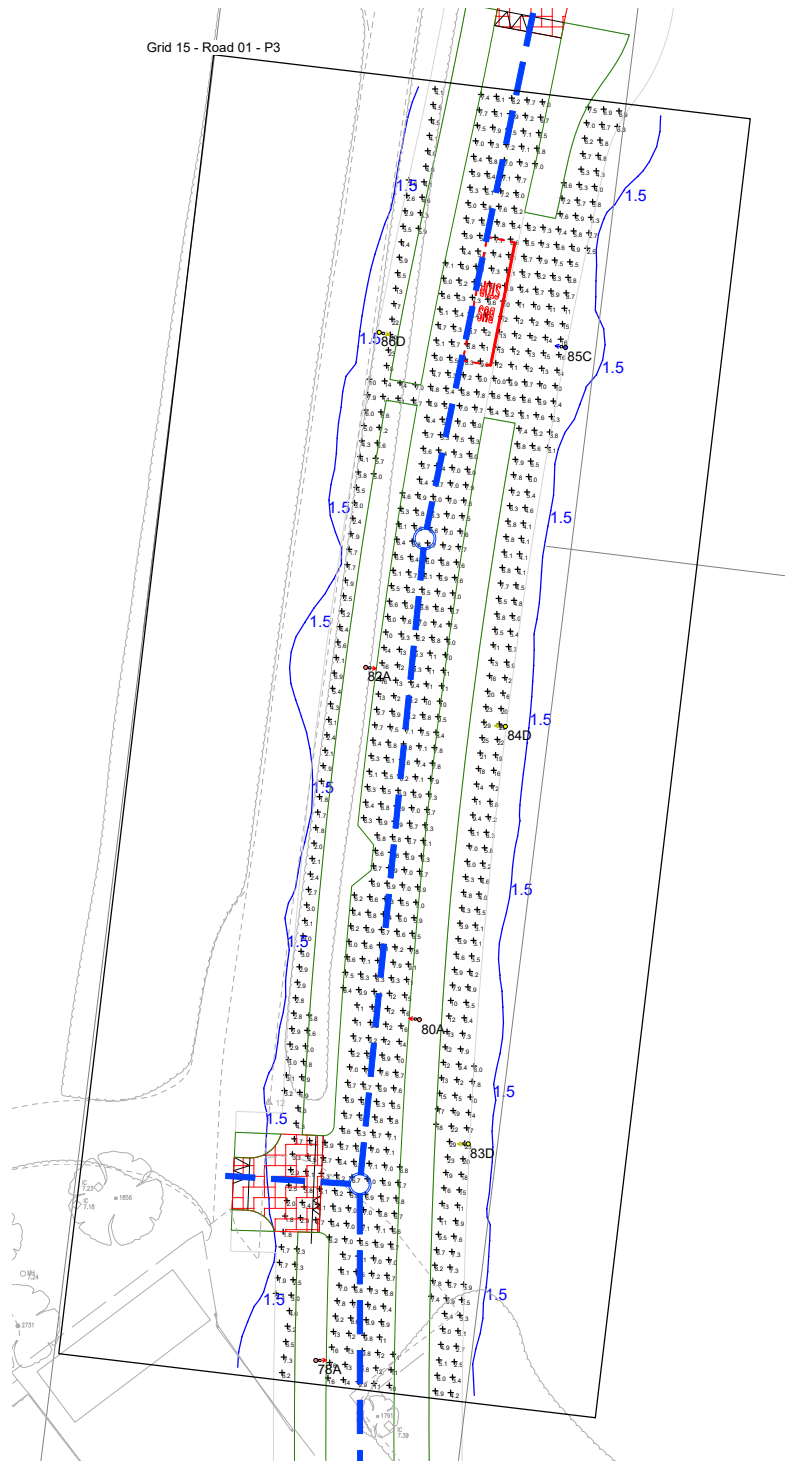


Results

Eav	7.53
Emin	1.55
Emax	32.64
Emin/Emax	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 15 - Road 01 - P3

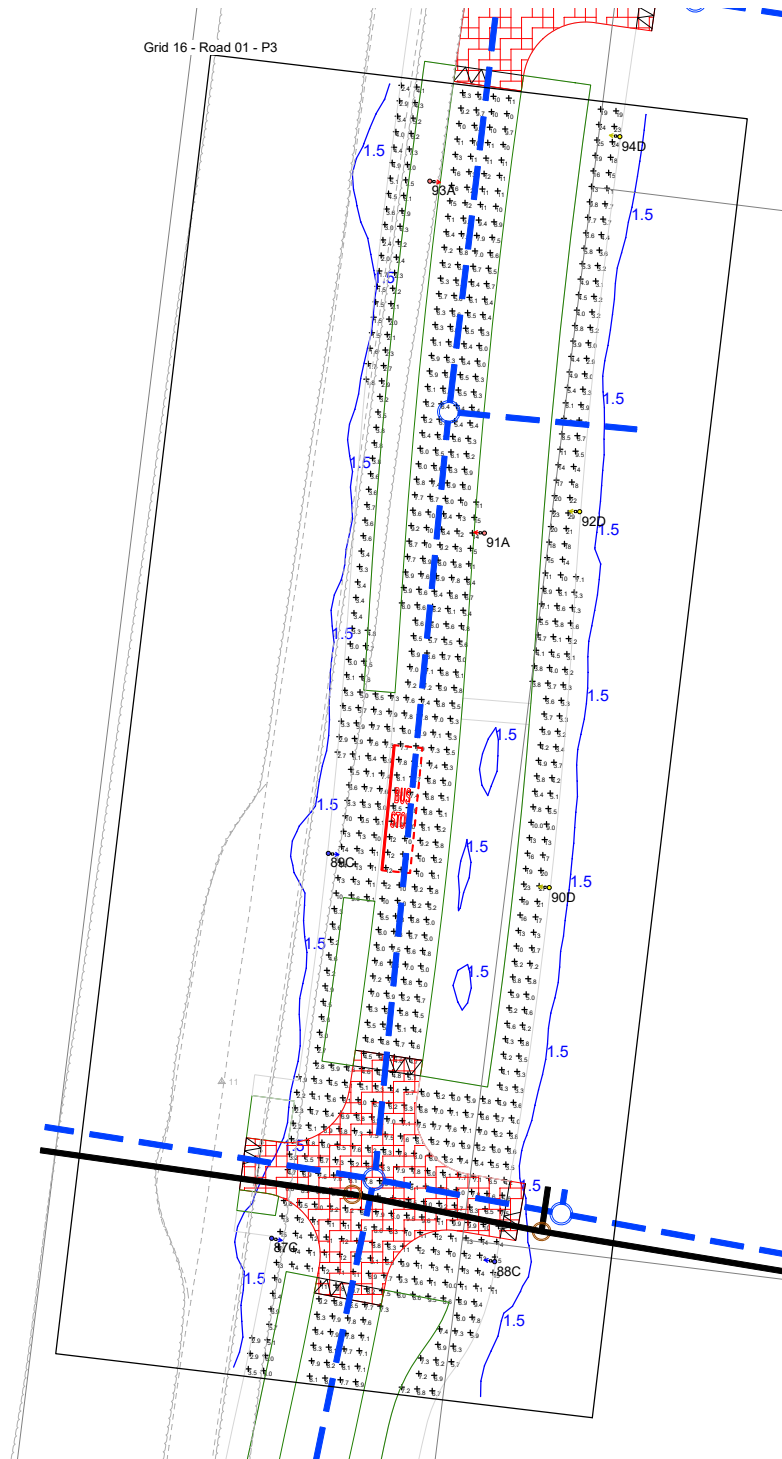


Results

Eav	7.72
Emin	1.66
Emax	29.55
Emin/Emax	0.06
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 16 - Road 01 - P3

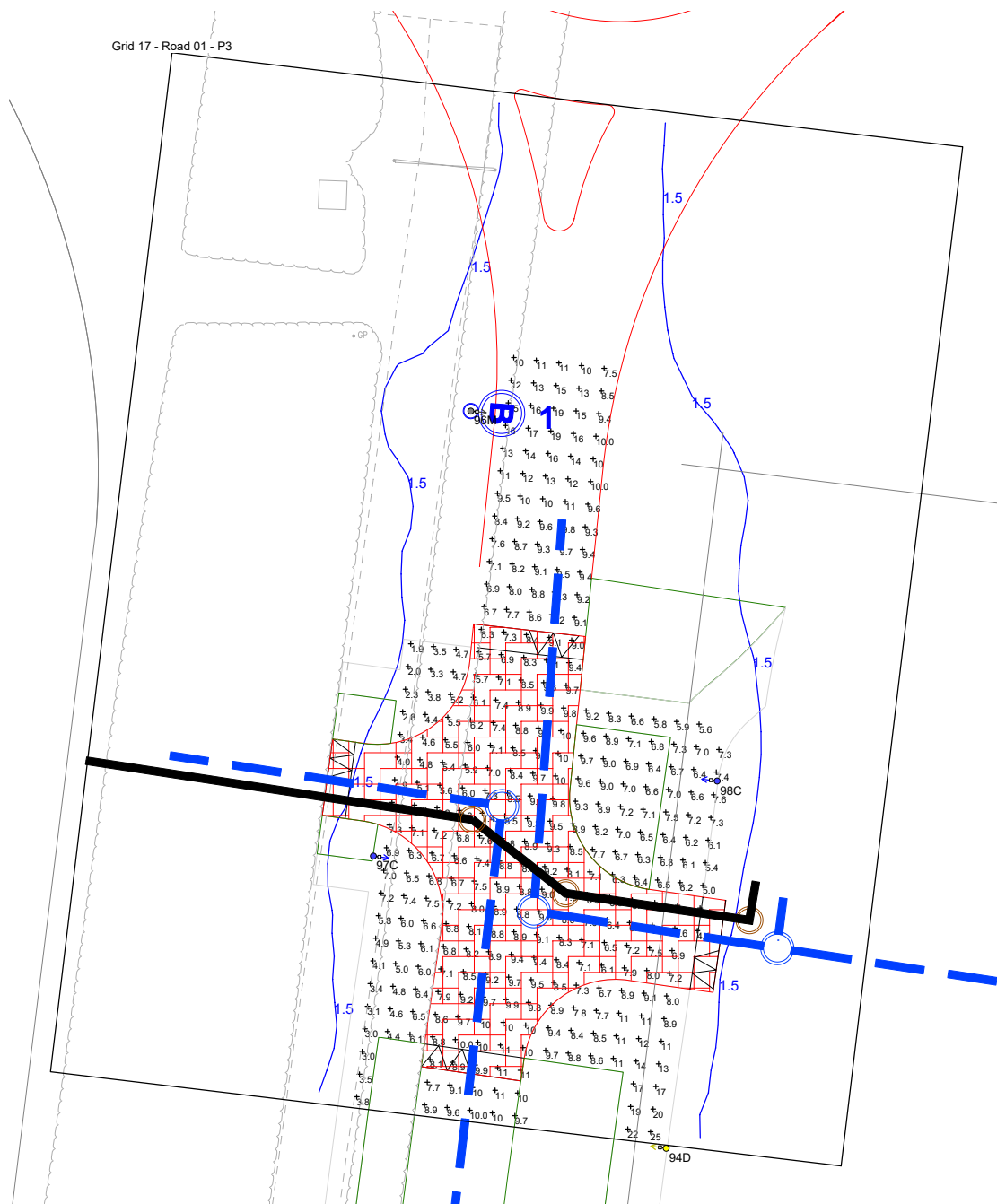


Results

Eav	7.72
Emin	1.52
E _{max}	28.55
Emin/E _{max}	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 17 - Road 01 - P3



Results

Eav	8.37
Emin	1.87
E _{max}	25.40
Emin/E _{max}	0.07
Emin/Eav	0.22