

DATE: 24 November 2020
DESIGNER: MMA Lighting Consultancy Limited
PROJECT No: MMA16090
PROJECT NAME: Ford Road, Arundel



Adoptable Street Lighting Design
6m Columns with TRT Lighting Aspect Amber
LED Luminaires
Lighting Class: P6 from BS 5489-1:2020
Eav: 2.00 - 3.00 Lux
Emin: 0.40 Lux

Outdoor Lighting Report

PREPARED BY: MMA Lighting Consultants Limited
99 Old Bath Road
Summer Field House
Charvil
Reading
Berkshire
RG10 9QN



Layout Report

General Data

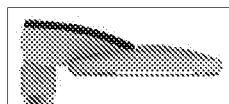
Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	500469.00	106110.00	374.00	350.00	1.50	1.50
2	Grid 2	500512.26	106203.69	75.00	78.00	1.50	1.50
3	Grid 3	500463.54	106244.10	60.00	78.00	1.50	1.50

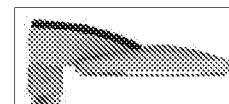
Luminaires

Luminaire A Data



Supplier	TRT Lighting
Type	AS16 LED 29W CLO GR5 PCA FG
Lamp(s)	42 0029 0000 100
Lamp Flux (klm)	1.79
File Name	AS16_LED_29W_CLO_GR5_PCA_FG.IES
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	21

Luminaire B Data



Supplier	TRT Lighting
Type	AS16 LED 21W CLO GR5 PCA FG
Lamp(s)	42 0021 0000 100
Lamp Flux (klm)	1.34
File Name	AS16_LED_21W_CLO_GR5_PCA_FG.IES
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	2

Luminaire C Data



Supplier	TRT Lighting
Type	AS16 LED 14W CLO GR5 PCA FG
Lamp(s)	42 0014 0000 100
Lamp Flux (klm)	0.92
File Name	AS16_LED_14W_CLO_GR5_PCA_FG.IES
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	2

Layout

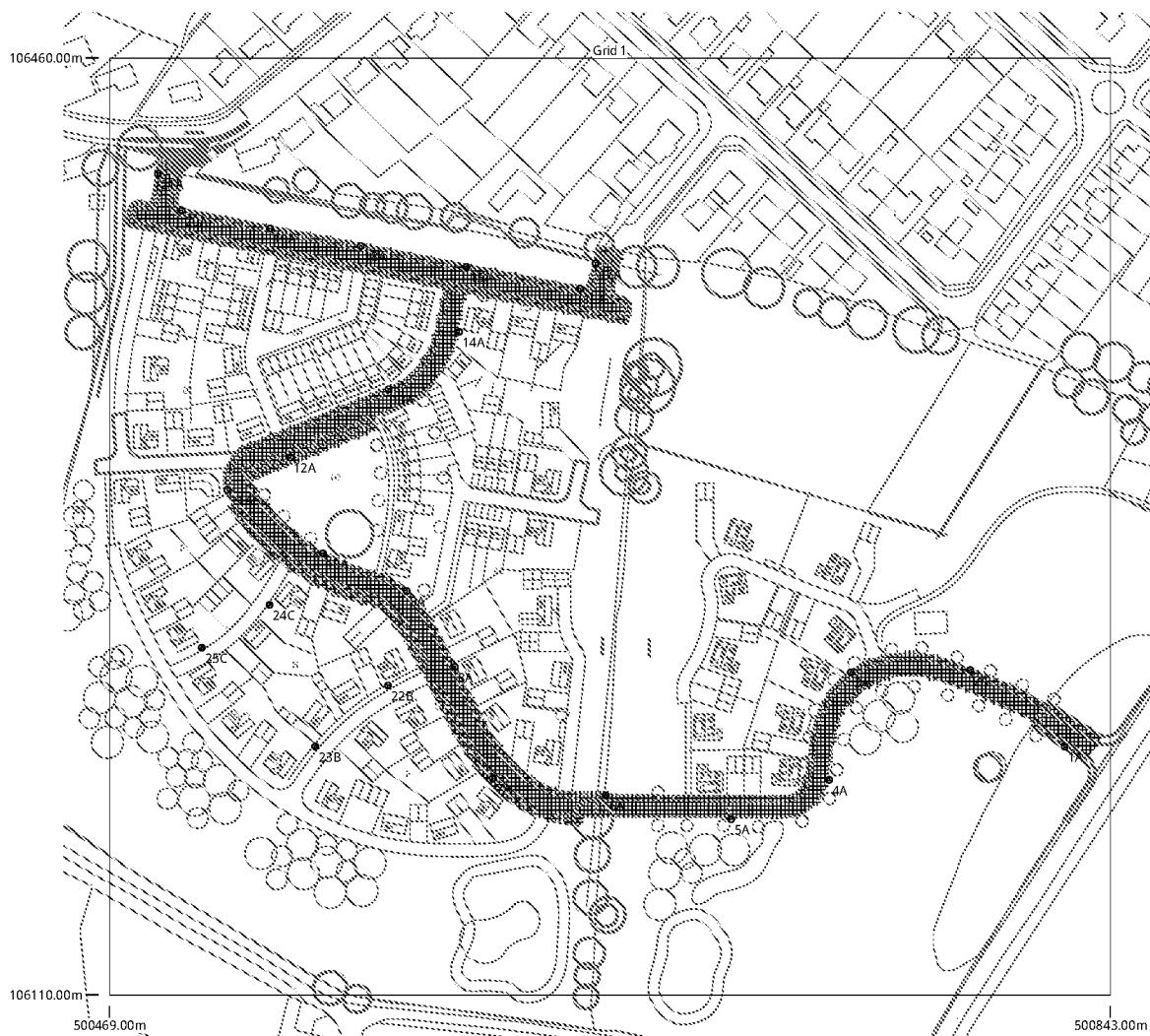
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	500825.92	106202.78	6.00	60.00	0.00	0.00	0.40			
2	A	500790.58	106231.38	6.00	250.00	0.00	0.00	0.40			
3	A	500745.96	106230.52	6.00	300.00	0.00	0.00	0.40			
4	A	500737.91	106190.47	6.00	164.00	0.00	0.00	0.40			
5	A	500701.31	106175.72	6.00	91.00	0.00	0.00	0.40			
6	A	500654.39	106184.70	6.00	268.00	0.00	0.00	0.40			
7	A	500612.28	106190.97	6.00	46.00	0.00	0.00	0.40			
8	A	500597.98	106232.51	6.00	207.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	A	500580.00	106260.95	6.00	218.00	0.00	0.00	0.40			
10	A	500548.87	106274.94	6.00	236.00	0.00	0.00	0.40			
11	A	500513.08	106298.68	6.00	26.00	0.00	0.00	0.40			
12	A	500536.53	106310.80	6.00	115.00	0.00	0.00	0.40			
13	A	500573.34	106336.30	6.00	300.00	0.00	0.00	0.40			
14	A	500599.64	106357.73	6.00	163.00	0.00	0.00	0.40			
15	A	500602.41	106381.95	6.00	258.00	0.00	0.00	0.40			
16	A	500644.77	106373.84	6.00	257.00	0.00	0.00	0.40			
17	A	500650.62	106383.22	6.00	342.00	0.00	0.00	0.40			
18	A	500562.96	106389.68	6.00	262.00	0.00	0.00	0.40			
19	A	500529.08	106396.29	6.00	260.00	0.00	0.00	0.40			
20	A	500495.98	106403.05	6.00	256.00	0.00	0.00	0.40			
21	A	500487.07	106416.63	6.00	348.00	0.00	0.00	0.40			
22	B	500573.10	106225.61	6.00	294.00	0.00	0.00	0.40			
23	B	500545.84	106202.95	6.00	323.00	0.00	0.00	0.40			
24	C	500528.77	106255.70	6.00	143.00	0.00	0.00	0.40			
25	C	500503.54	106239.74	6.00	304.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	2.82
Emin	0.41
E max	14.54
E min/E max	0.03
E min/E av	0.15

Horizontal Illuminance (lux)

Grid 1



Results

E av	2.82
E min	0.41
E max	14.54
E min/E max	0.03
E min/E av	0.15

Horizontal Illuminance (lux)

Grid 2



Results

E _{av}	2.89
E _{min}	0.66
E _{max}	10.82
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 2



Results

E av	2.89
E min	0.66
E max	10.82
E min/E max	0.06
E min/E av	0.23

Horizontal Illuminance (lux)

Grid 3



Results

E av	2.25
E min	0.53
E max	7.01
E min/E max	0.08
E min/E av	0.24

Horizontal Illuminance (lux)

Grid 3



Results

E _{av}	2.25
E _{min}	0.53
E _{max}	7.01
E _{min} /E _{max}	0.08
E _{min} /E _{av}	0.24