

DATE: 6 August 2026
DESIGNER: Mark Kenny Lighting Consultancy Ltd
PROJECT No: MKL096
PROJECT NAME: Bartons Road Developemnt, Havant, Hampshire



Bartons Road Development, Havant, - S38 Lighting Design
Proposed Adoptable Areas
Lighting Classification: P4 (BS 5489-1 2020, Table A.5)
Minimum maintained average illuminance (Eav): >5.00 <7.50 lux
Minimum illuminance (Emin): >1.00 lux
Lighting Uniformity (Emin/Eav): >0.20 (20%)

Private Roads (To Remain Unadopted)
Lighting Classification: P4 (BS 5489-1 2020, Table A.5)
Minimum maintained average illuminance (Eav): >5.00 <7.50 lux
Minimum illuminance (Emin): >1.00 lux
Lighting Uniformity (Emin/Eav): >0.20 (20%)
Revision R0

Base Drawing File Title: GUI005-BBK-XX-XX-DR-C-91-250-(1-2)
(2026-07-22) Drainage Layouts.dwg

Outdoor Lighting Report

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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	5160.21	1658.33	27.00	72.00	1.50	1.50
2	Grid 2	5133.52	1627.32	25.50	55.50	1.50	1.50
3	Grid 3	5099.48	1579.99	27.00	61.50	1.50	1.50
4	Grid 4	5066.30	1541.17	40.50	51.00	1.50	1.50
5	Grid 5	5042.38	1623.77	88.50	45.00	1.50	1.50
6	Grid 6 - Private Developme...	5050.86	1564.80	43.50	25.50	1.50	1.50
7	Grid 7	5048.09	1664.12	76.46	83.98	1.50	1.50
8	Grid 8	5030.56	1601.00	47.86	36.00	1.50	1.50
9	Grid 9	4984.09	1509.89	244.00	255.85	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	BGP702 DW52
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	2.60
File Name	Luma Gen2 Micro_BGP702_DW52_2600_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	702.3, 55.2, 0.0
No. in Project	14

Luminaire B Data

Supplier	
Type	BGP702 DW52
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	2.20
File Name	Luma Gen2 Micro_BGP702_DW52_2200_1 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	702.3, 55.2, 0.0
No. in Project	9

Luminaire C Data

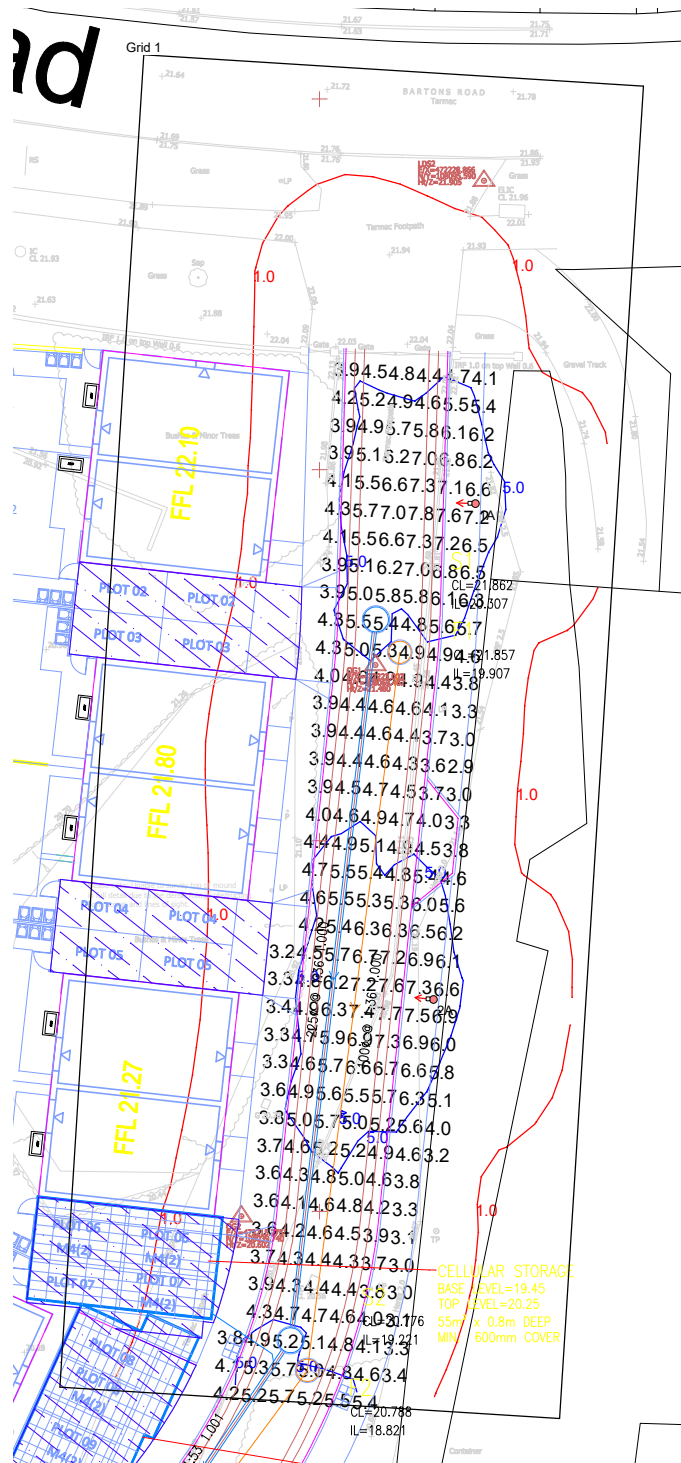
Supplier	
Type	BGP702 DW50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	1.80
File Name	Luma Gen2 Micro_BGP702_DW50_1800_1 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	5182.62	1705.98	6.00	178.00	0.00	0.00	0.30			
2	A	5180.36	1679.23	6.00	174.00	0.00	0.00	0.30			
3	A	5173.74	1651.71	6.00	152.00	0.00	0.00	0.30			
4	A	5144.13	1609.80	6.00	149.00	0.00	0.00	0.30			
5	A	5147.30	1636.00	6.00	335.00	0.00	0.00	0.30			
6	A	5091.83	1556.61	6.00	62.00	0.00	0.00	0.30			
7	A	5102.93	1544.27	6.00	157.00	0.00	0.00	0.30			
8	A	5113.59	1567.76	6.00	155.00	0.00	0.00	0.30			
9	A	5124.89	1589.47	6.00	132.00	0.00	0.00	0.30			
10	A	5125.72	1622.01	6.00	250.00	0.00	0.00	0.30			
11	A	5105.51	1639.99	6.00	157.00	0.00	0.00	0.30			
12	A	5093.21	1636.84	6.00	247.00	0.00	0.00	0.30			
13	A	5069.37	1647.61	6.00	246.00	0.00	0.00	0.30			
14	A	5072.52	1624.47	6.00	336.00	0.00	0.00	0.30			
15	B	5069.10	1566.71	6.00	63.00	0.00	0.00	0.30			
16	B	5108.42	1673.83	6.00	336.00	0.00	0.00	0.30			
17	B	5115.55	1690.82	6.00	336.00	0.00	0.00	0.30			
18	B	5128.69	1699.24	6.00	156.00	0.00	0.00	0.30			
19	C	5102.04	1681.12	6.00	331.00	0.00	0.00	0.30			
20	B	5090.63	1675.30	6.00	246.00	0.00	0.00	0.30			
21	B	5082.60	1684.08	6.00	156.00	0.00	0.00	0.30			
22	B	5092.05	1704.73	6.00	158.00	0.00	0.00	0.30			
23	B	5071.02	1605.81	6.00	155.00	0.00	0.00	0.30			
24	B	5052.27	1608.29	6.00	59.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 1

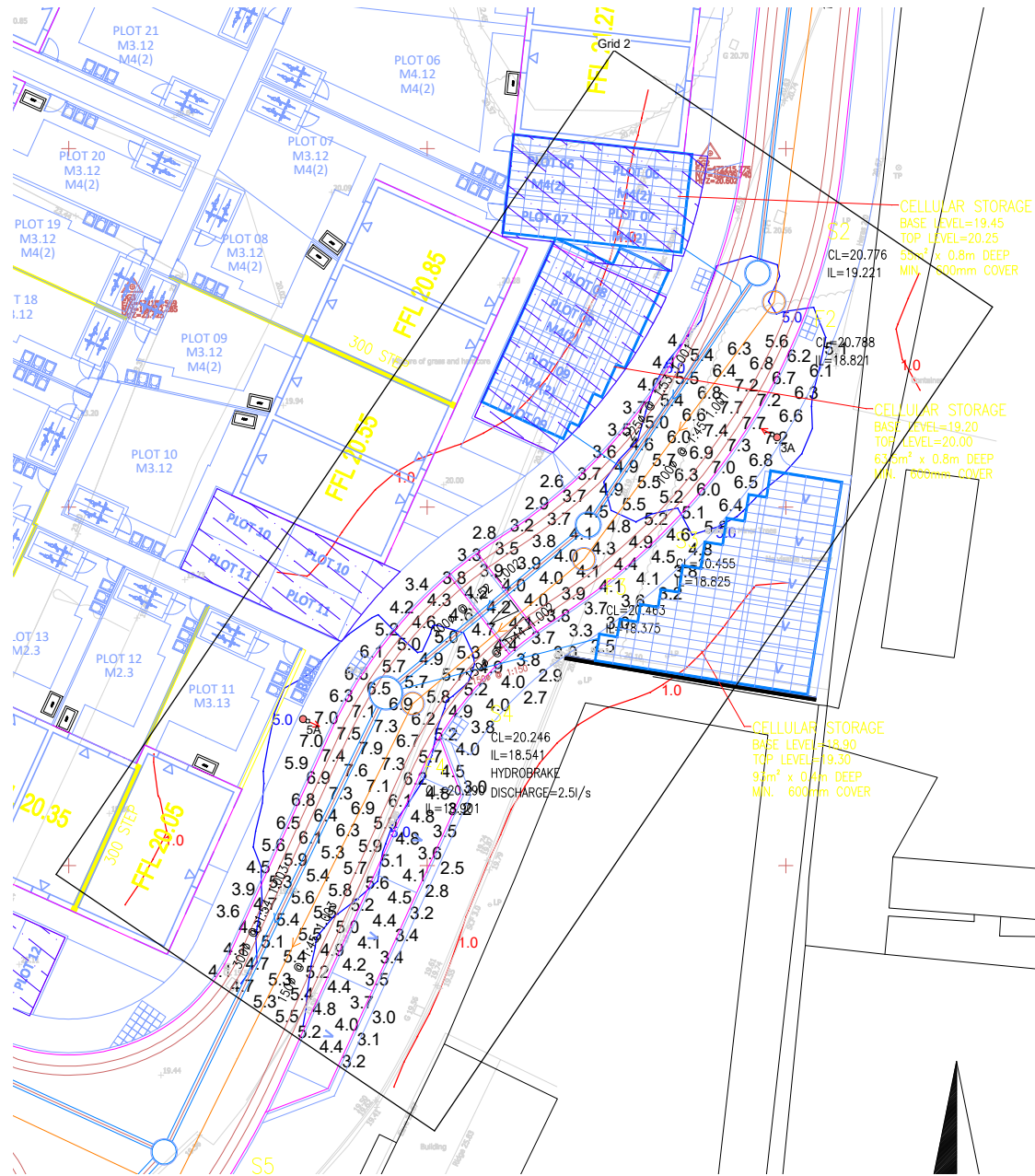


Results

Eav	5.01
Emin	2.93
Emax	7.83
Emin/Emax	0.37
Emin/Eav	0.59

Horizontal Illuminance (lux)

Grid 2

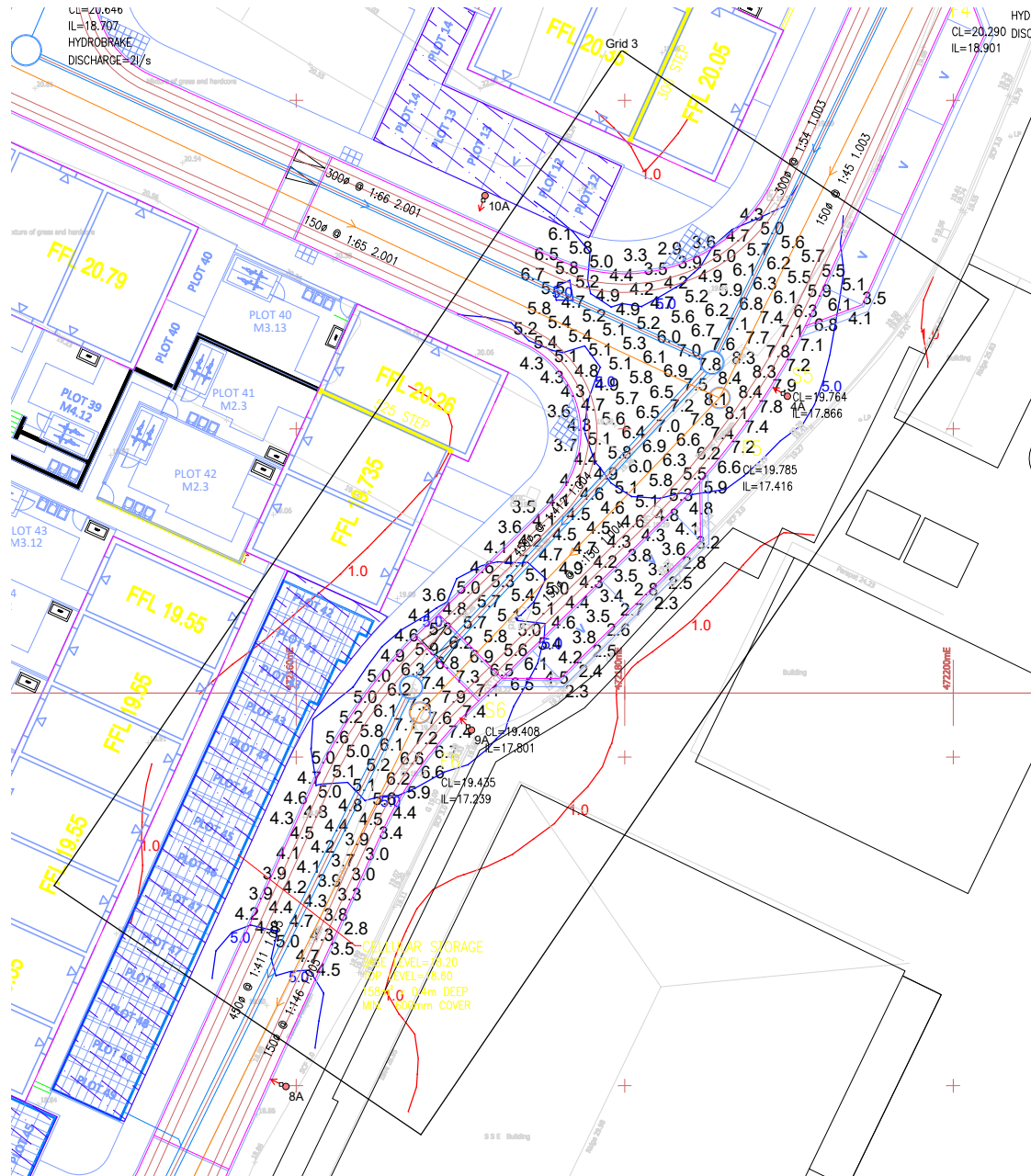


Results

Eav	5.01
Emin	2.48
Emax	7.87
Emin/Emax	0.31
Emin/Eav	0.49

Horizontal Illuminance (lux)

Grid 3

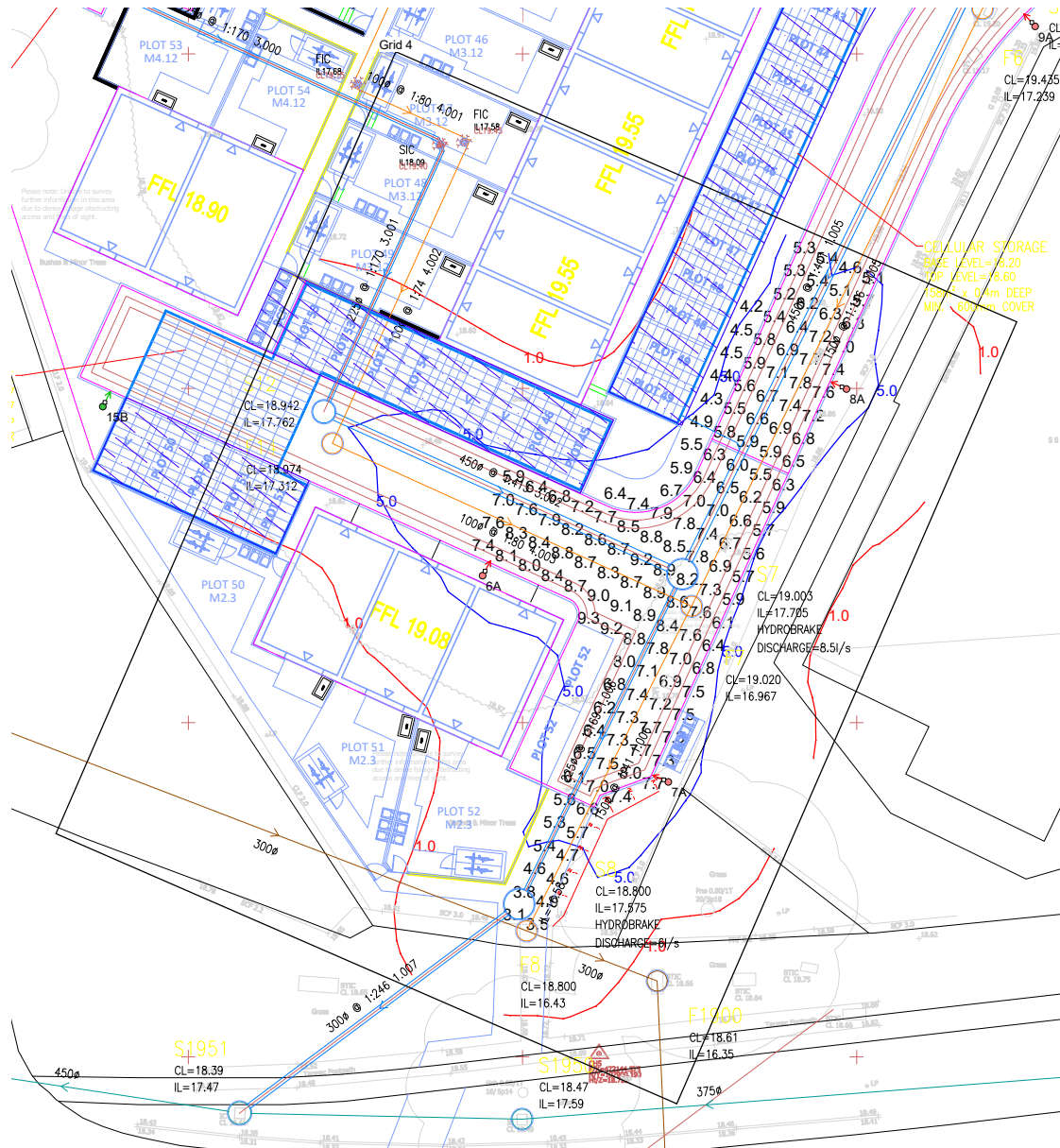


Results

Eav	5.25
Emin	2.26
Emax	8.41
Emin/Emax	0.27
Emin/Eav	0.43

Horizontal Illuminance (lux)

Grid 4

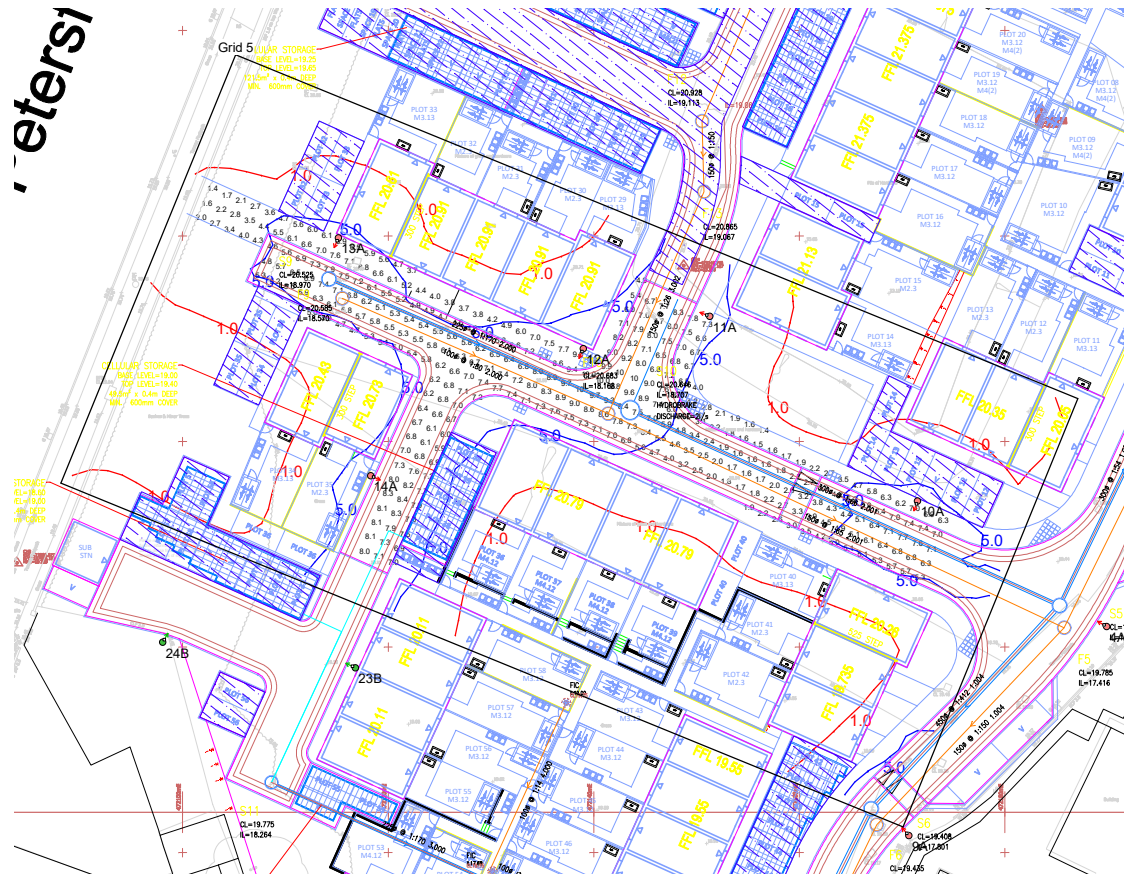


Results

Eav	6.80
Emin	3.09
Emax	9.34
Emin/Emax	0.33
Emin/Eav	0.45

Horizontal Illuminance (lux)

Grid 5



Results

Eav	5.80
Emin	1.36
Emax	10.46
Emin/Emax	0.13
Emin/Eav	0.23

Eav	5.13
Emin	3.81
E _{max}	6.65
Emin/E _{max}	0.57
Emin/Eav	0.74

Horizontal Illuminance (lux)

Grid 7

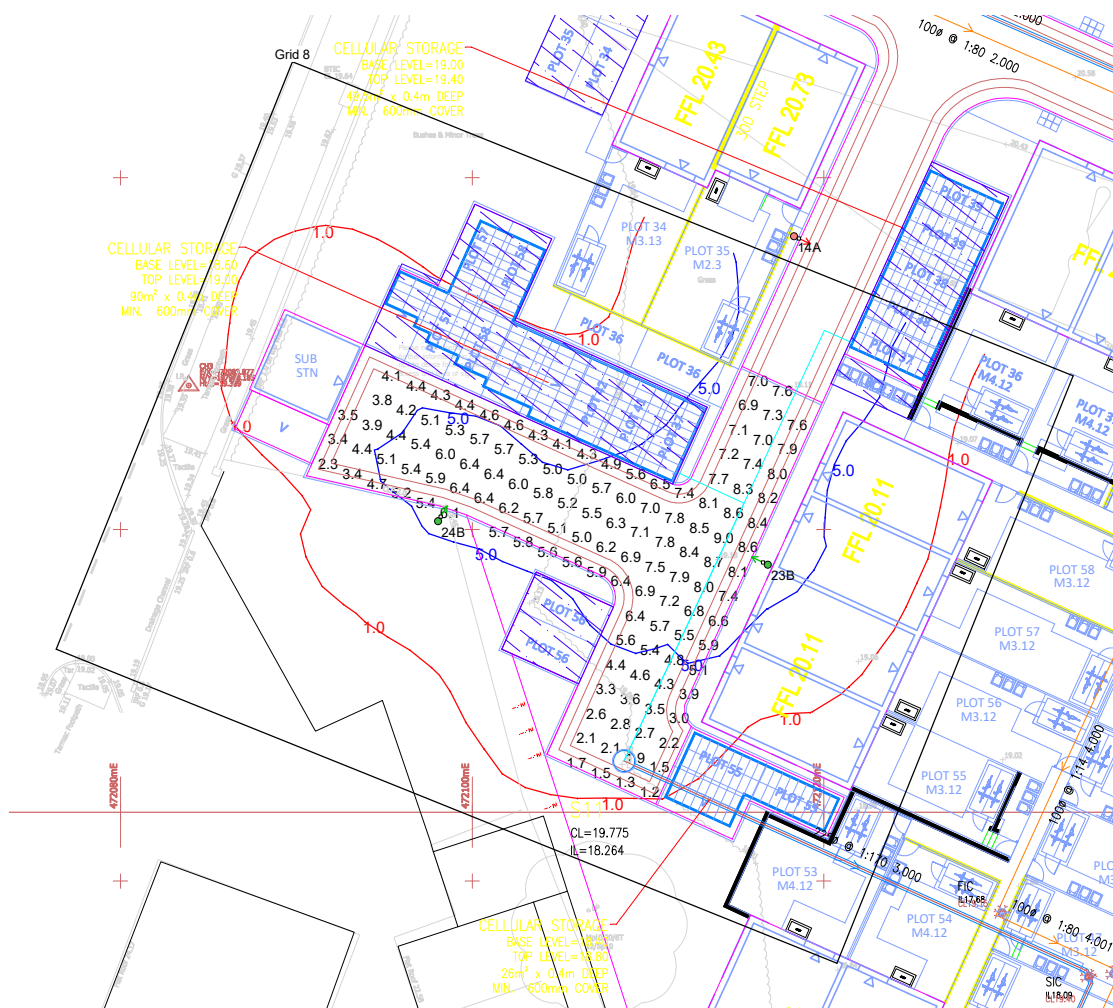


Results

Eav	5.12
Emin	1.44
Emax	9.70
Emin/Emax	0.15
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 8



Results

Eav	5.55
Emin	1.15
E _{max}	8.97
Emin/E _{max}	0.13
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 9

