

DATE: 10 February 2023
DESIGNER: M Groves AMILP EngTECH
PROJECT No: 20014676
PROJECT NAME: EVO20014676-AC-001-C

ENERVEO

Burgess Hill WBLR Phase 3

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	A2300 - Grid 1 - C3/M3	529391.33	120267.58	150.00	60.00	1.49	1.46
2	A2300 - Grid 2 - C3/M3	529499.29	120166.53	150.00	60.00	1.49	1.46
3	Jane Muray Way - Grid 1 - ...	529517.06	119934.61	85.12	34.89	1.49	1.45
4	Jane Muray Way - Grid 2 - ...	529578.40	119986.45	73.50	43.39	1.50	1.50
5	Jane Muray Way RAB - Grid ...	529599.31	120066.16	61.21	57.01	1.49	1.46
6	Footpath 01 - Grid 01 - P5	529388.93	120272.88	106.22	30.84	1.50	1.47
7	Footpath 01 - Grid 02 - P5	529464.35	120201.35	102.98	26.52	1.49	1.47
8	Footpath 01 - Grid 03 - P5	529536.80	120132.88	88.64	24.64	1.48	1.45
9	Jane Muray Way - Grid 4 - ...	529420.39	119744.82	108.62	48.80	1.49	1.48
10	ISO Lux Contours - Grid 01	529320.00	120106.00	250.00	250.00	1.50	1.50
11	ISO Lux Contours - Grid 02	529570.00	120106.00	250.00	250.00	1.50	1.50
12	ISO Lux Contours - Grid 03	529320.00	119856.00	250.00	250.00	1.50	1.50
13	ISO Lux Contours - Grid 04	529570.00	119856.00	250.00	250.00	1.50	1.50
14	ISO Lux Contours - Grid 05	529320.00	119606.00	250.00	250.00	1.50	1.50
15	Footpath 02 - Grid 01 - P5	529549.78	120152.71	102.31	31.56	1.48	1.43
16	Footpath 02 - Grid 02 - P5	529479.69	120224.37	102.31	31.56	1.48	1.43
17	Footpath 02 - Grid 03 - P5	529410.92	120291.22	97.64	31.56	1.48	1.43

Luminaires

Luminaire A Data

Supplier	
Type	BGP704 DW10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	23.00
File Name	Luma Gen2 Medium_BGP704_DW10_2300 0_80LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	438.8, 62.1, 0.0
No. in Project	4

Luminaire B Data

Supplier	
Type	BGP703 DM32
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	13.00
File Name	Luma Gen2 Mini_BGP703_DM32_13000_4 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	457.3, 30.0, 0.0
No. in Project	4

Luminaire C Data

Supplier	
Type	AXIA 3.3 5279 Integrated lenses 48 OSLO N SQUARE GIANT@800mA
Lamp(s)	48 OSLO N SQUARE GIANT@800mA NW 740 230V 00-36-983
LampFlux(klm)/Colour	17.07 NW 4000K/70
File Name	AXIA 3.3 5279 48 LED 800mA NW 740 115 W 429344 230V TF.Idt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	781.4, 152.7, 3.9
No. in Project	3

Luminaire D Data

Supplier	
Type	SGS253 GB OR P1
Lamp(s)	SON-TPP150W
LampFlux(klm)/Colour	17.50 -/
File Name	SGS253 GB 1xSON-TPP150W OR P1.Idt
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	373.5, 11.1, 1.0
No. in Project	7

Luminaires

Luminaire E Data

Supplier	
Type	AXIA 3.2 5281 Integrated lenses 32 OSLO N SQUARE GIANT@700mA
Lamp(s)	32 OSLO N SQUARE GIANT@700mA NW 740 230V 02-58-000
LampFlux(klm)/Colour	10.45 NW 4000K/70
File Name	AXIA 3.2 5281 32 LED 700mA NW 740 69 W 430142 230V TF.Idt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	862.3, 183.0, 0.0
No. in Project	7

Luminaire F Data

Supplier	
Type	AXIA 3.1 5296 Integrated lenses Rear louvers 8 OSLO N SQUARE G
Lamp(s)	8 OSLO N SQUARE GIANT@300mA NW 740 230V 01-42-072
LampFlux(klm)/Colour	0.99 NW 4000K/70
File Name	AXIA 3.1 5296 8 LED 300mA NW 740 8.9W 457602 BL 230V TF.Idt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1285.9, 28.2, 0.0
No. in Project	6

Luminaire G Data

Supplier	
Type	SGS253 GB OR P6
Lamp(s)	SON-TPP150W
LampFlux(klm)/Colour	17.50 -/
File Name	SGS253 GB 1xSON-TPP150W OR P6.Idt
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	422.3, 13.1, 1.0
No. in Project	1

Luminaire M Data

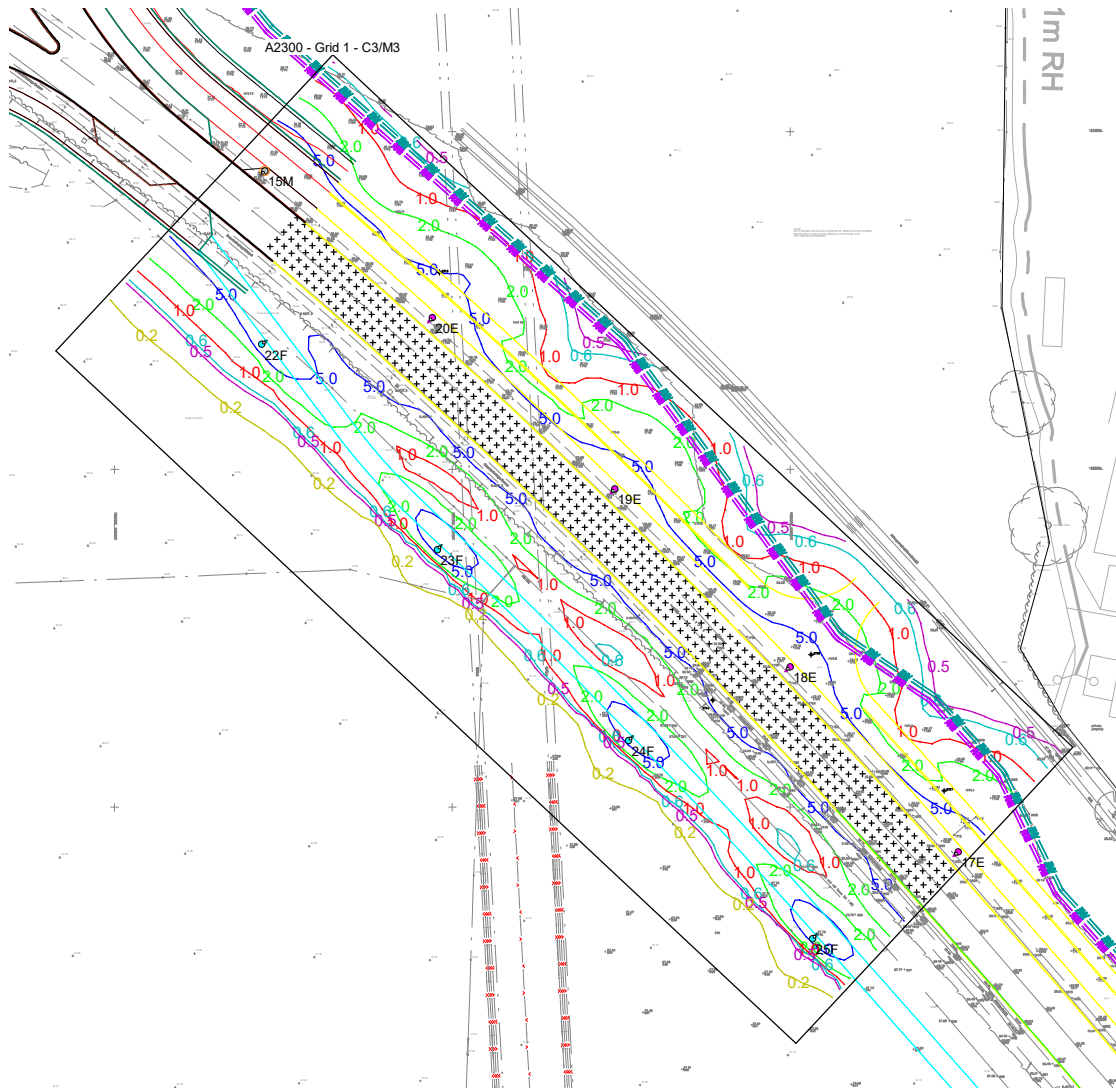
Supplier	
Type	BGP704 DW50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	15.00
File Name	Luma Gen2 Medium_BGP704_DW50_1500 0_80LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	529464.70	119928.03	10.00	283.00	0.00	0.00	0.40			
2	B	529490.74	119917.54	10.00	136.00	0.00	0.00	0.40			
3	B	529508.35	119956.19	10.00	318.00	0.00	0.00	0.40			
4	C	529533.46	119987.94	10.00	317.00	0.00	0.00	0.40			
5	C	529566.28	120017.11	10.00	311.00	0.00	0.00	0.40			
6	C	529589.89	120035.70	10.00	309.00	0.00	0.00	0.40			
7	D	529614.30	120057.33	10.00	317.00	0.00	0.00	0.40			
8	D	529619.36	120071.23	10.00	5.00	0.00	0.00	0.40			
9	D	529635.89	120101.30	10.00	291.00	0.00	0.00	0.40			
10	D	529640.42	120044.00	10.00	90.00	0.00	0.00	0.40			
11	D	529666.47	120104.91	10.00	233.00	0.00	0.00	0.40			
12	D	529611.49	120086.48	10.00	41.00	0.00	0.00	0.40			
13	E	529597.14	120117.35	10.00	232.00	0.00	0.00	0.40			
14	E	529573.58	120137.69	10.00	225.00	0.00	0.00	0.40			
15	M	529422.25	120294.21	10.00	228.00	0.00	0.00	0.40			
16	E	529549.18	120165.50	10.00	223.00	0.00	0.00	0.40			
17	E	529524.88	120193.40	10.00	221.00	0.00	0.00	0.40			
18	E	529500.00	120220.79	10.00	223.00	0.00	0.00	0.40			
19	E	529474.05	120247.16	10.00	228.00	0.00	0.00	0.40			
20	E	529447.07	120272.49	10.00	228.00	0.00	0.00	0.40			
23	D	529666.97	120045.32	10.00	106.00	0.00	0.00	0.40			
22	F	529421.79	120268.55	6.00	35.00	0.00	0.00	0.40			
23	F	529447.80	120238.16	6.00	47.00	0.00	0.00	0.40			
24	F	529476.10	120209.90	6.00	46.00	0.00	0.00	0.40			
25	F	529503.32	120180.59	6.00	46.00	0.00	0.00	0.40			
26	F	529529.74	120150.55	6.00	43.00	0.00	0.00	0.40			
27	F	529558.85	120123.11	6.00	53.00	0.00	0.00	0.40			
28	G	529403.76	119769.06	10.00	331.00	0.00	0.00	0.40			
29	A	529469.00	119888.00	10.00	160.00	0.00	0.00	0.40			
30	A	529444.00	119867.00	10.00	358.00	0.00	0.00	0.40			
31	B	529449.00	119832.00	10.00	155.00	0.00	0.00	0.40			
32	B	529422.41	119807.76	10.00	335.00	0.00	0.00	0.40			
33	A	529433.00	119904.00	10.00	34.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

A2300 - Grid 1 - C3/M3

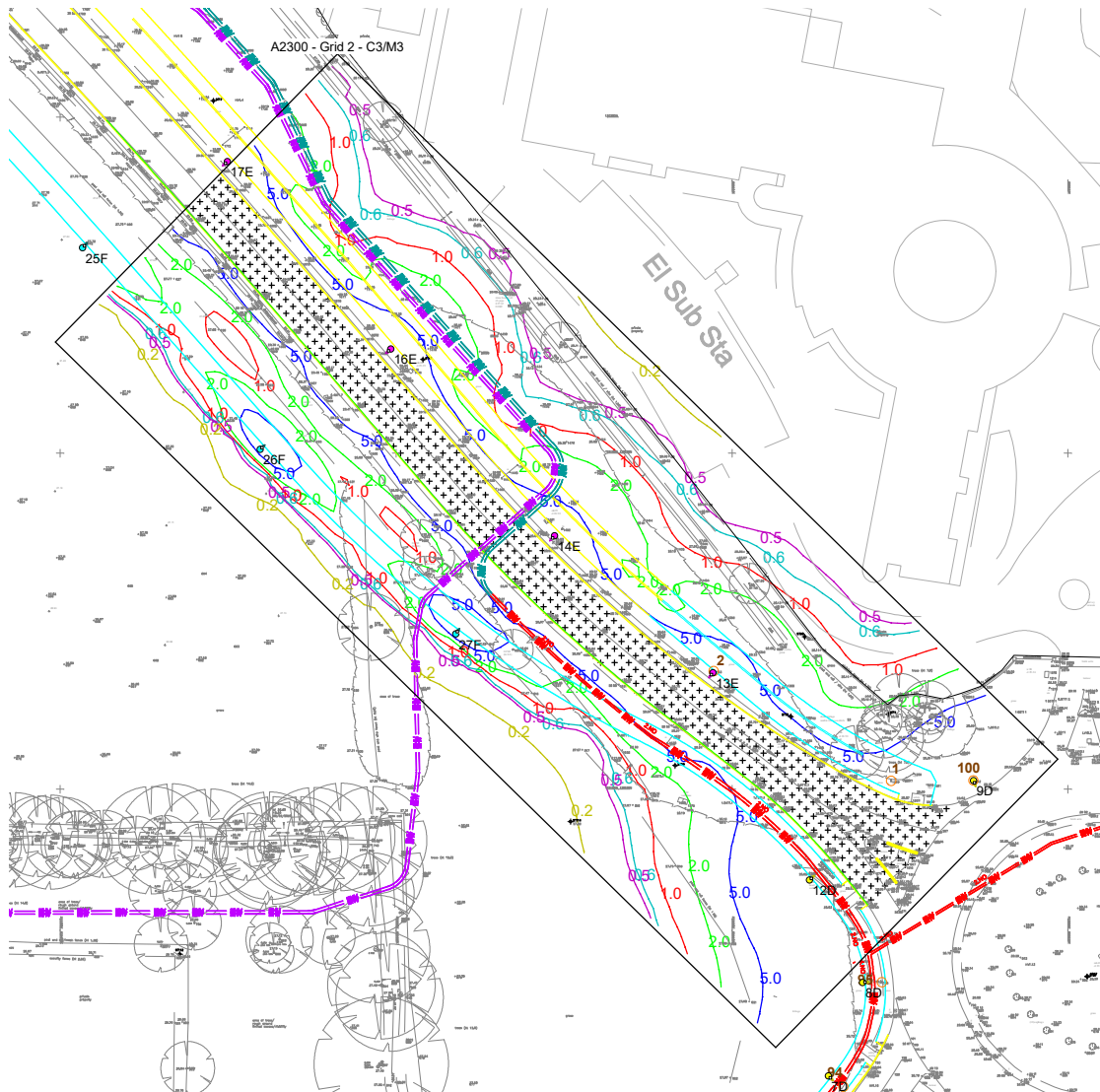


Results

Eav	16.38
Emin	8.41
Emax	26.38
Emin/Emax	0.32
Emin/Eav	0.51

Horizontal Illuminance (lux)

A2300 - Grid 2 - C3/M3

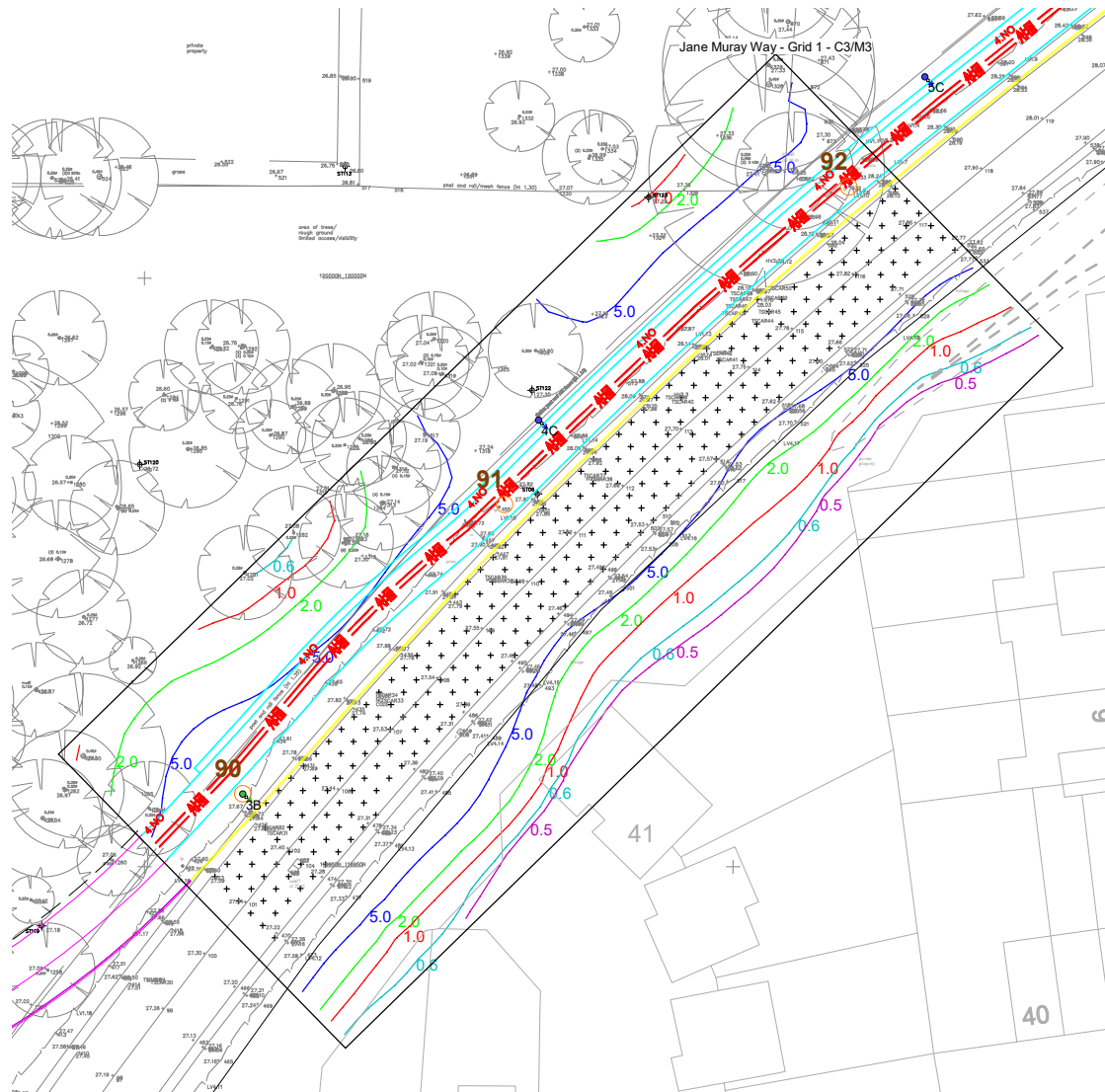


Results

Eav	18.04
Emin	7.50
Emax	35.85
Emin/Emax	0.21
Emin/Eav	0.42

Horizontal Illuminance (lux)

Jane Murray Way - Grid 1 - C3/M3

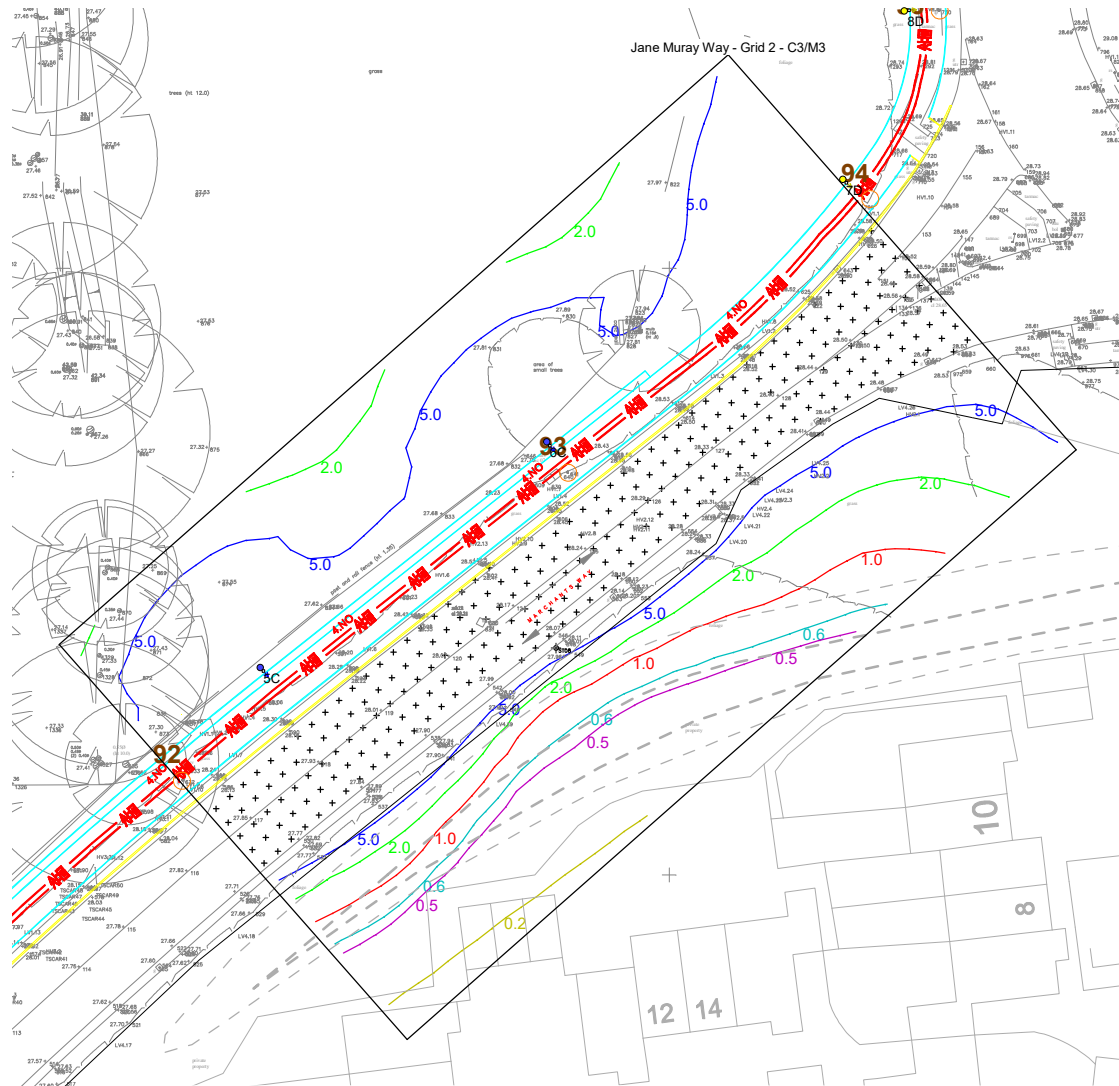


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Jane Murray Way - Grid 2 - C3/M3

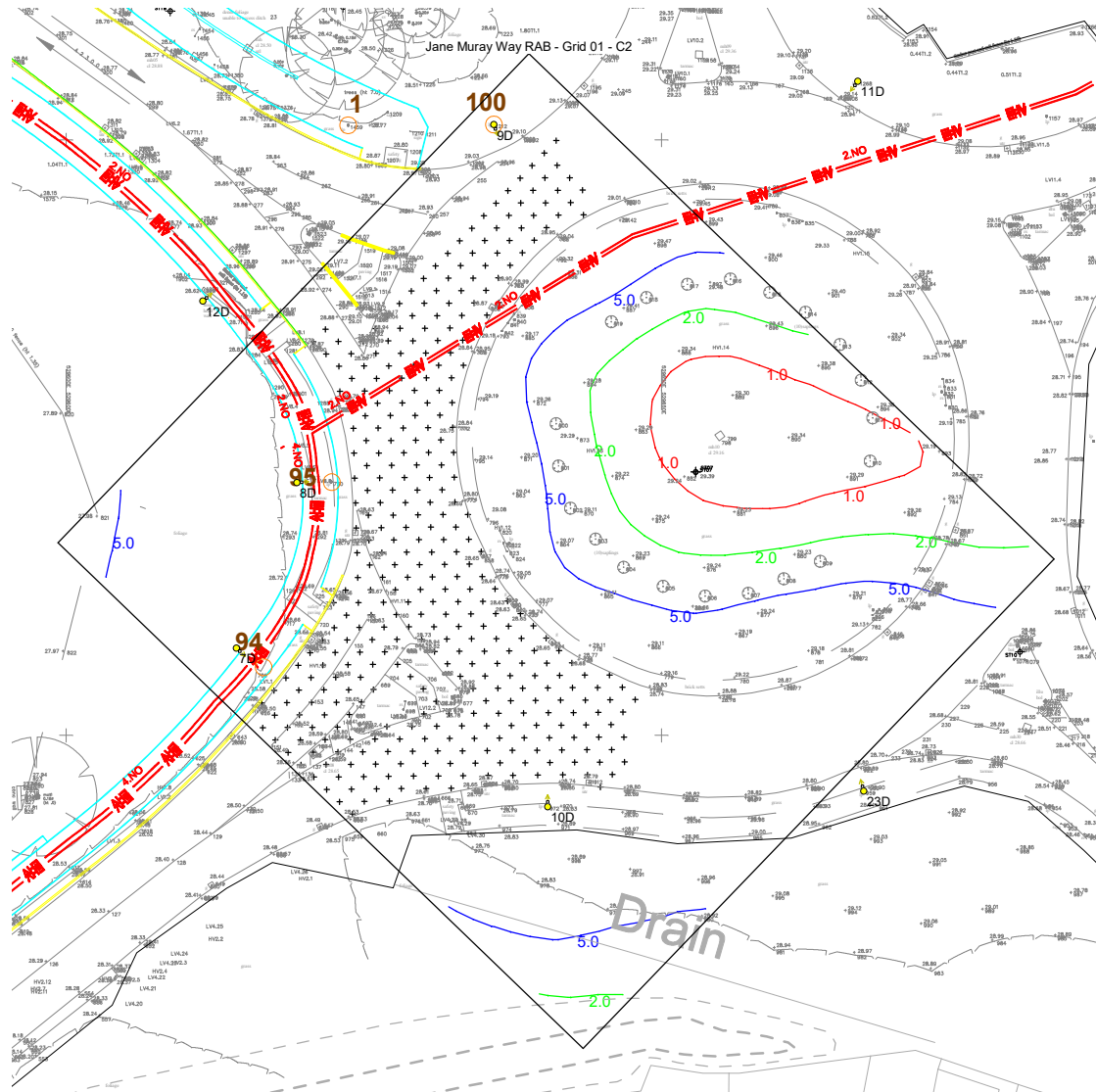


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Jane Murray Way RAB - Grid 01 - C2

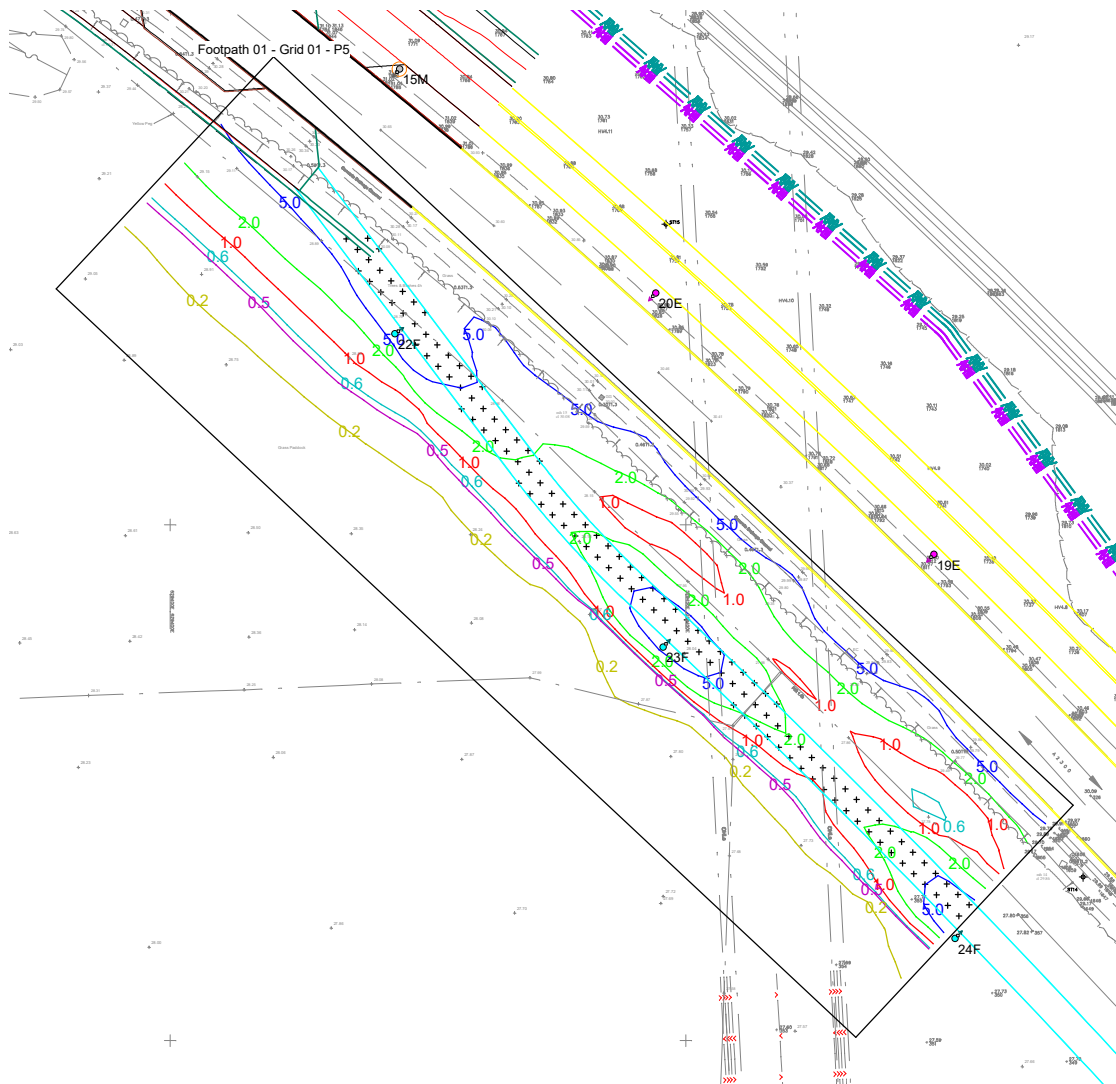


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Footpath 01 - Grid 01 - P5

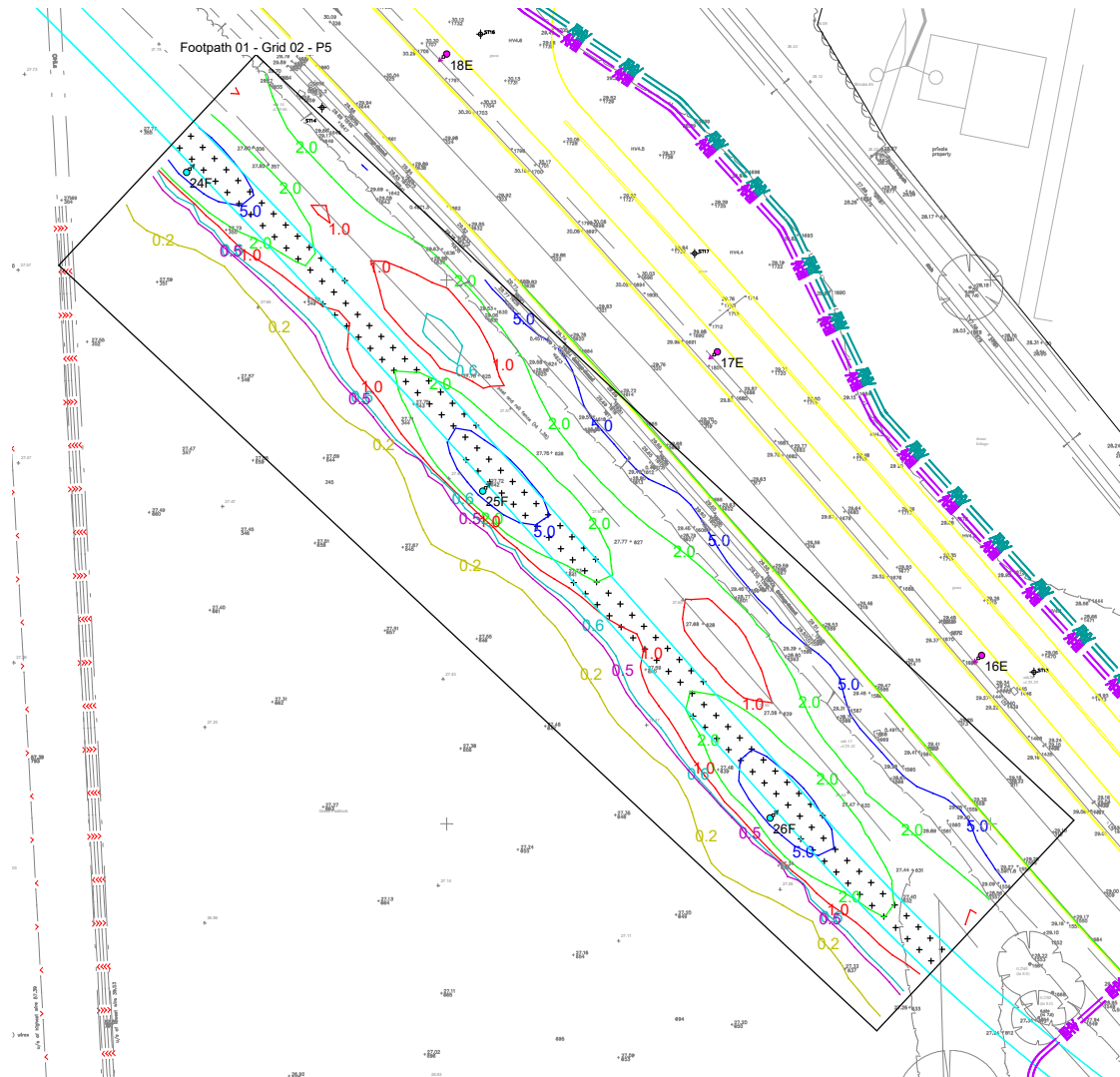


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Footpath 01 - Grid 02 - P5

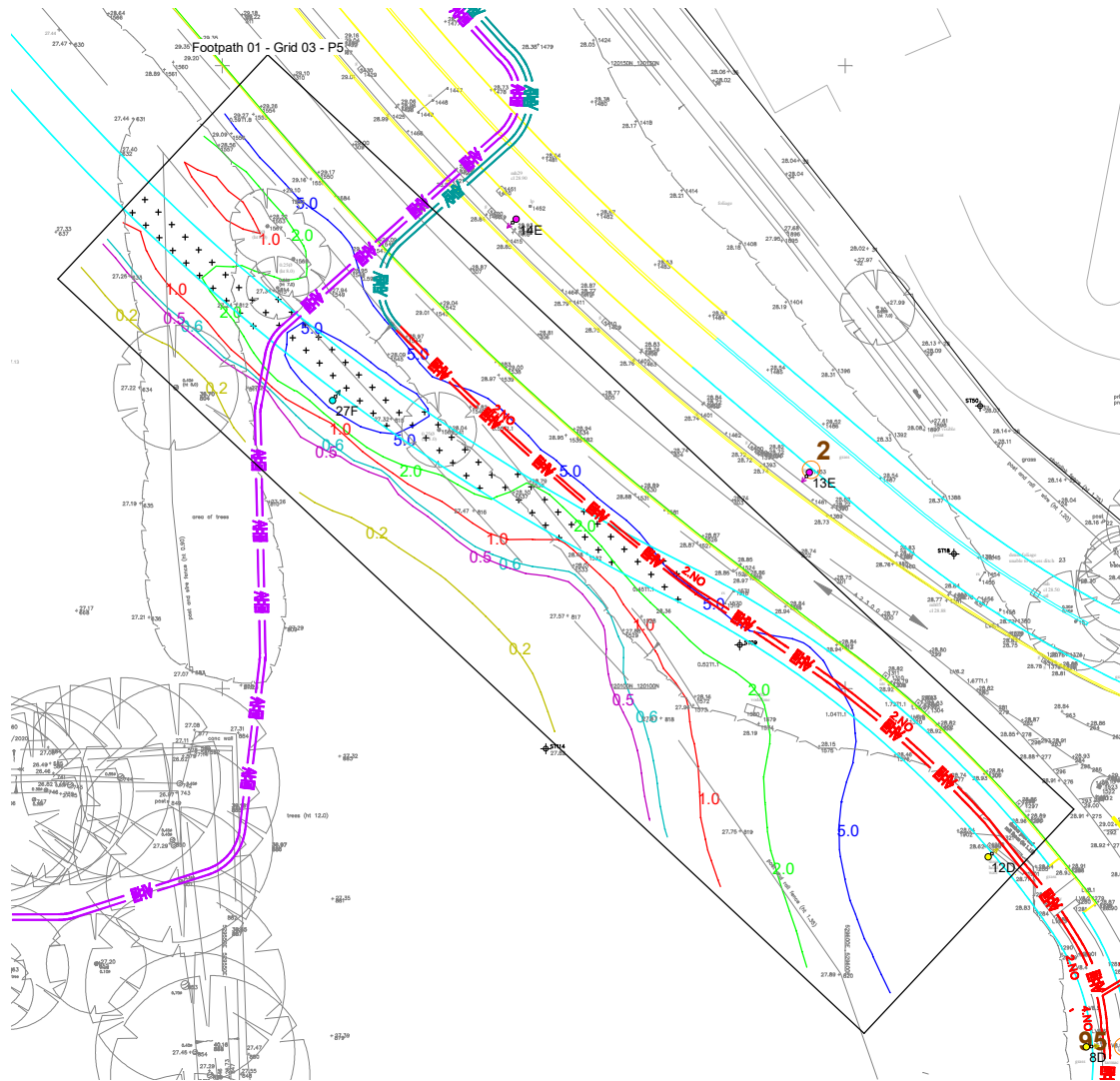


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Footpath 01 - Grid 03 - P5

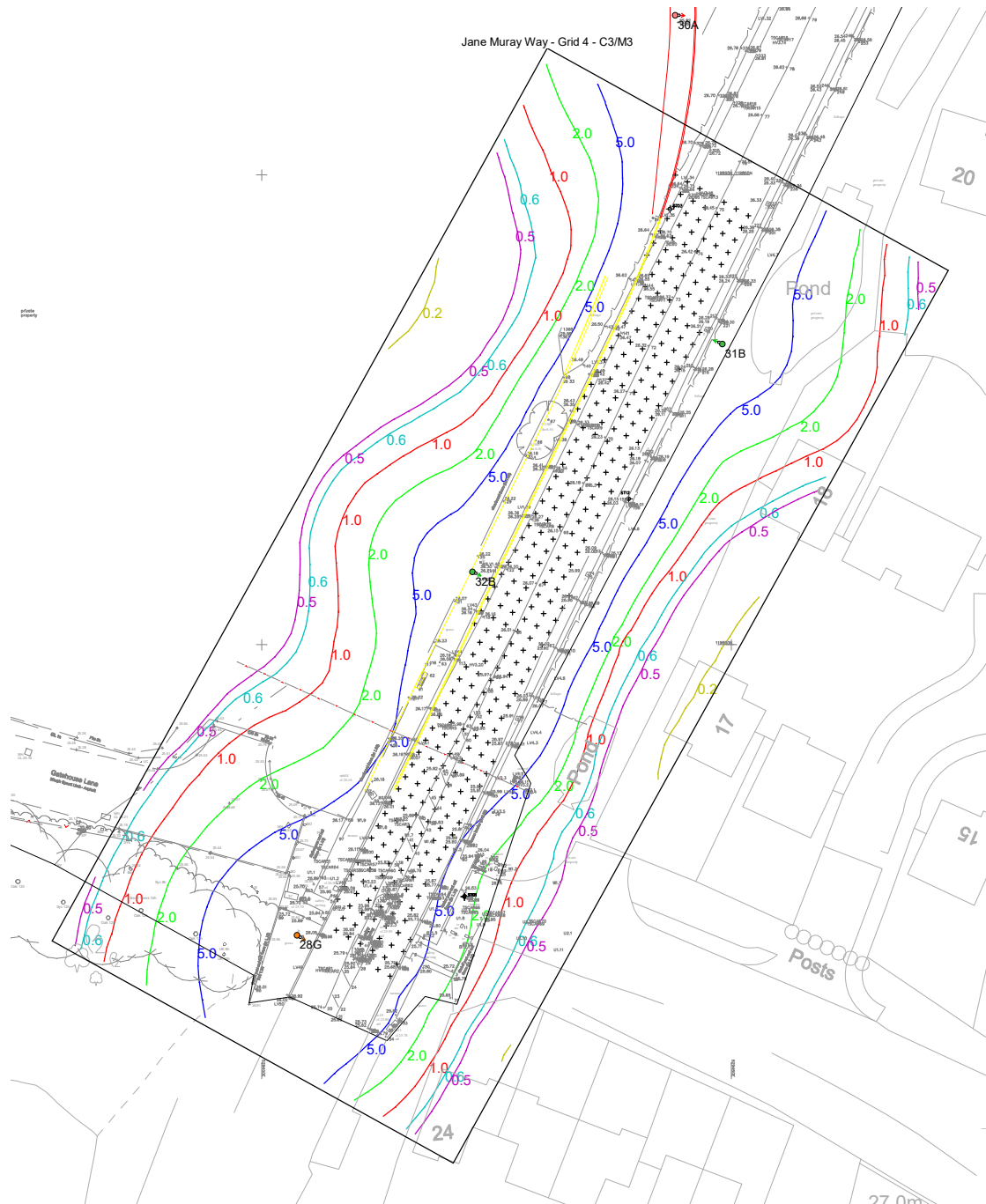


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Jane Murray Way - Grid 4 - C3/M3

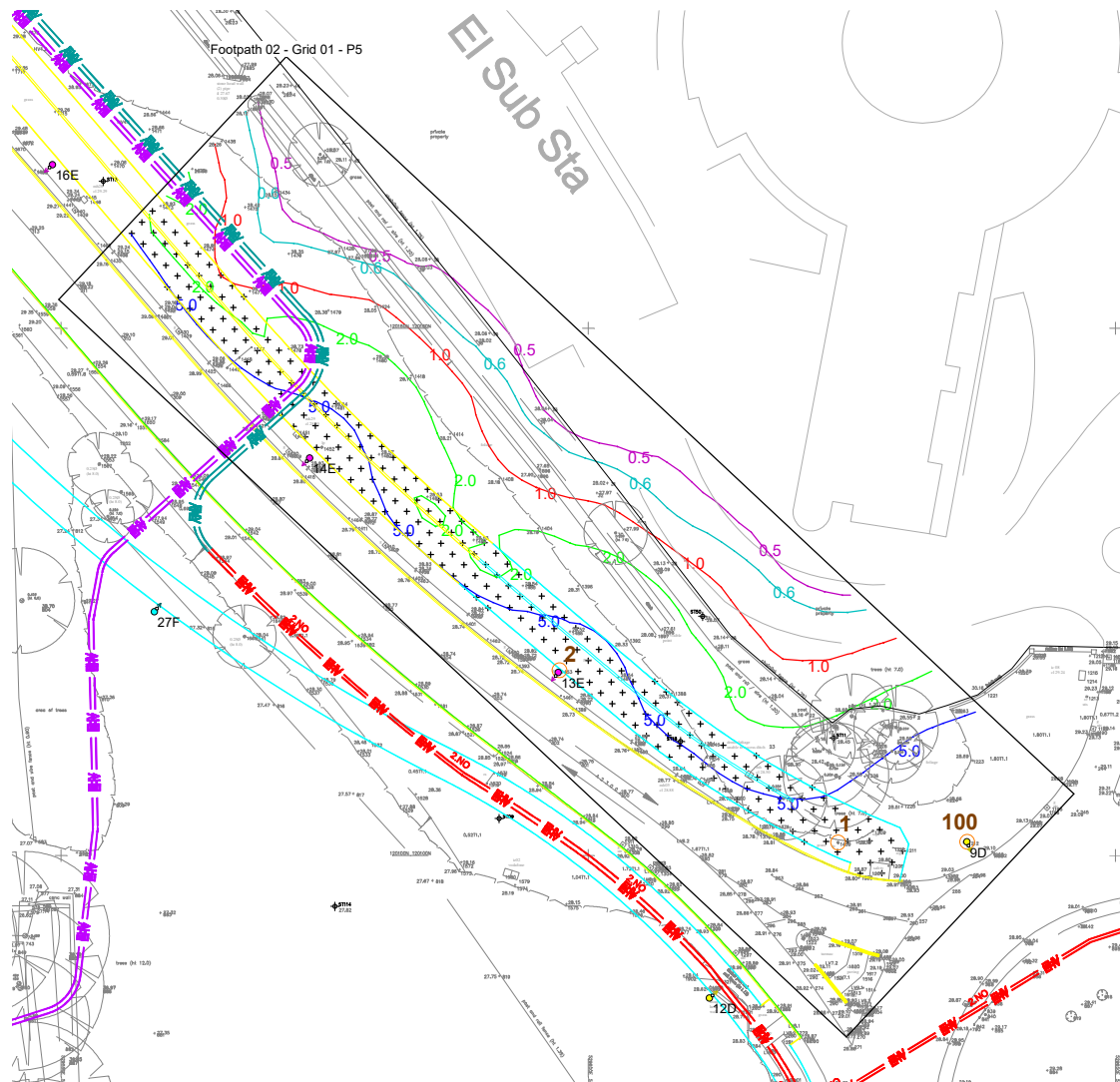


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Footpath 02 - Grid 01 - P5

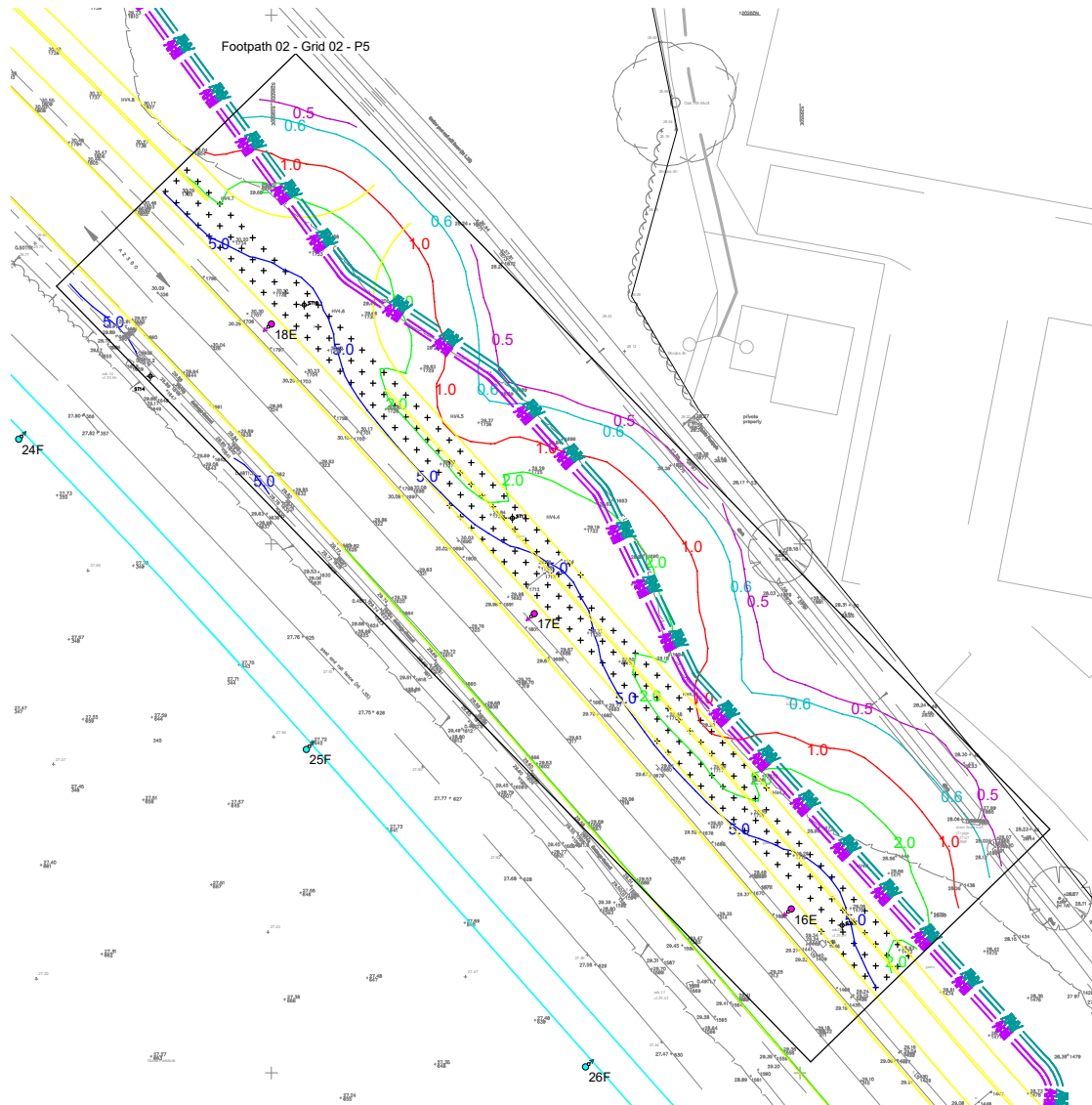


Results

Eav	5.32
Emin	0.99
Emax	15.63
Emin/Emax	0.06
Emin/Eav	0.19

Horizontal Illuminance (lux)

Footpath 02 - Grid 02 - P5

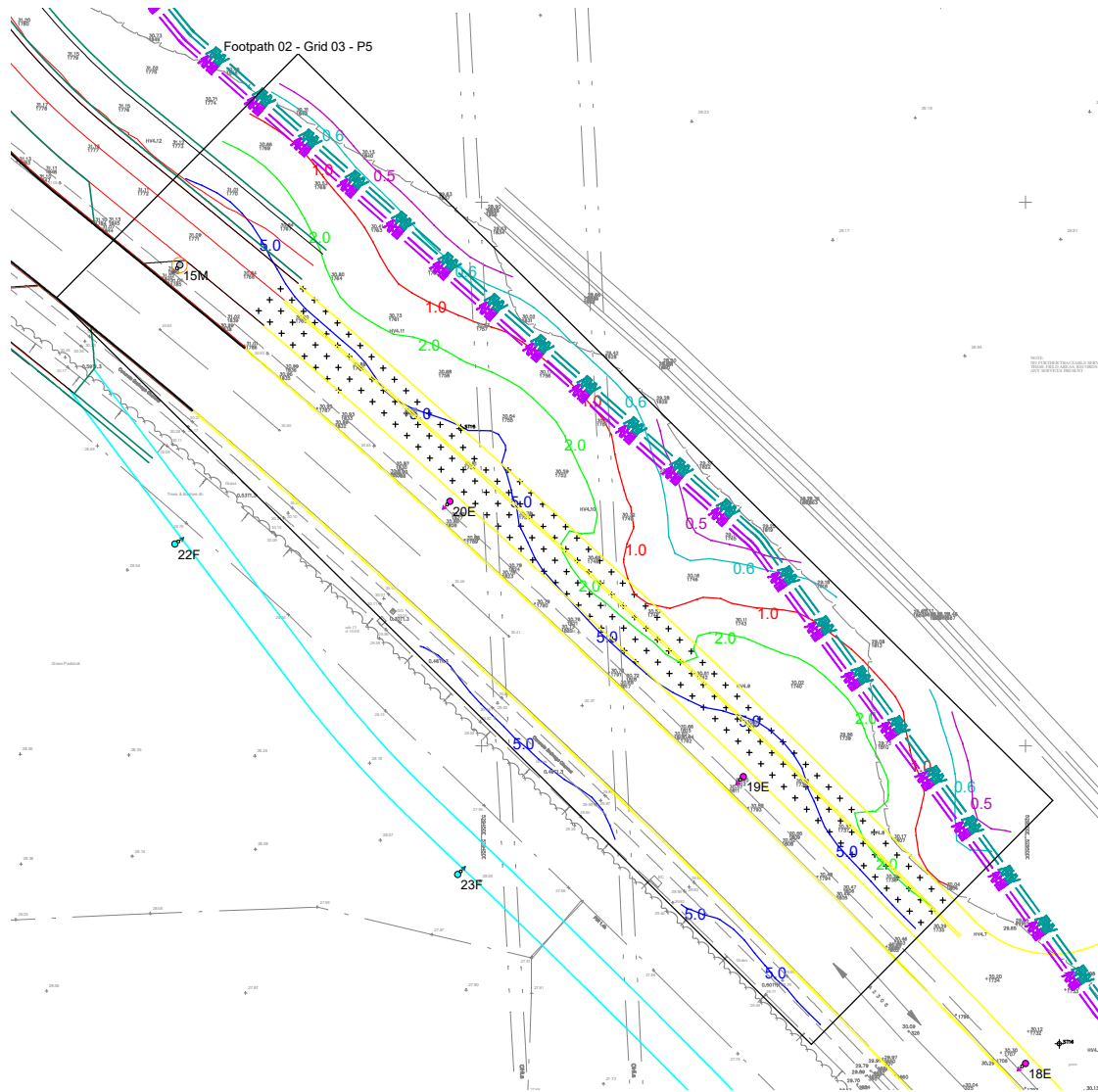


Results

Eav	5.32
Emin	0.99
E _{max}	15.63
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.19

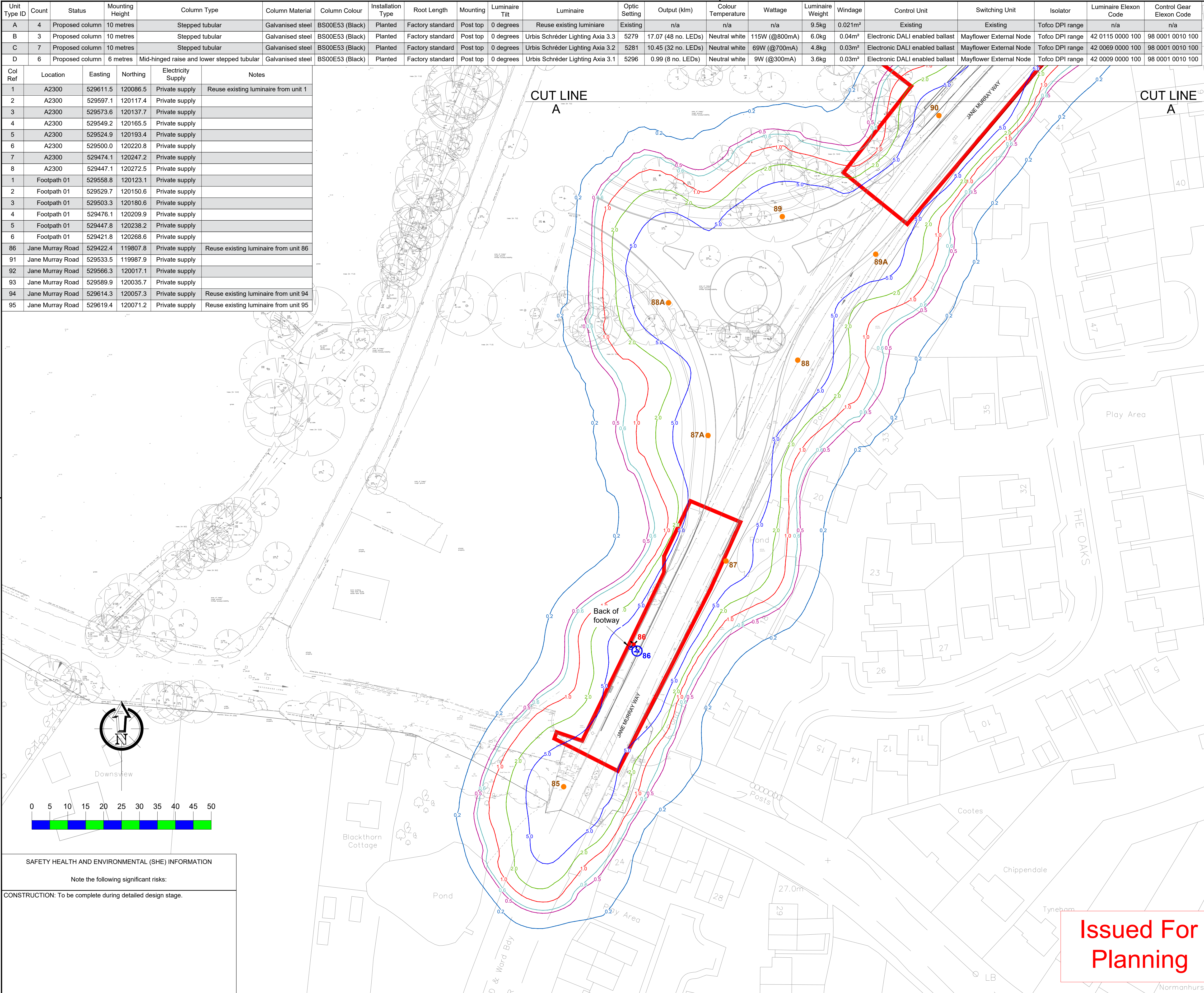
Horizontal Illuminance (lux)

Footpath 02 - Grid 03 - P5



Results

Eav	5.32
Emin	0.99
E _{max}	15.63
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.19



Key

- 8 Proposed street lighting column (Unit Type ID displayed inside symbol. Unit reference number displayed outside symbol).
- Existing lighting column to be retained.
- Street lighting column to be removed.
- Phase 3 Construction Works Boundary.

Lighting Classes (BS5489-1:2020)		ISO Lux contours
Jane Murray Way	C3/M3	5.0 lux
Jane Murray Way Roundabout	C2	2.0 lux
A2300	C3/M3	1.0 lux
Footpath 01 & 02	P5	0.6 lux
		0.5 lux
		0.2 lux

Notes

- Do not scale from drawing if not printed at original paper size.
- All street lighting equipment and works to be carried out in accordance with current West Sussex County Council specification. All references of standard drawings; refer to West Sussex County Council specification document unless otherwise stated.
- During works all traffic management to be in accordance with Chapter 8 of the Traffic Signs Manual.
- Columns are to be designed in accordance with BSEN40 and PD6547.
- Lighting columns to be fed by DNO supply unless otherwise shown.
- Columns are to be factory painted.
- All apparatus shall be sited so as to minimise, in so far as is reasonable and practical, nuisance, danger and obstruction to all residents, businesses and users of the highway.
- All illuminated apparatus must be installed and tested in compliance with BS7671 at the time of adoption.
- Trees or any other foliage on the site must not interfere with the lighting.

Enerveo working with:

REV	DESCRIPTION	DATE	BY
C	OVERLAID LATEST RED LINE BOUNDARY	03/12/24	MWG
B	AMENDED FOLLOWING CLIENT COMMENTS	25/09/24	MWG
A	ORIGINAL ISSUE	09/09/24	MWG

Enerveo Lighting Design - 1st Floor, Solent Park, Walton Road, Portsmouth, PO6 1UJ
email - lightingdesign@enerveo.com

TITLE	
STREET LIGHTING LAYOUT DRAWING (INCLUDING ISO LUX CONTOURS) SHEET 1 OF 3	

PROJECT	
BURGESS HILL WBLR PHASE 3	

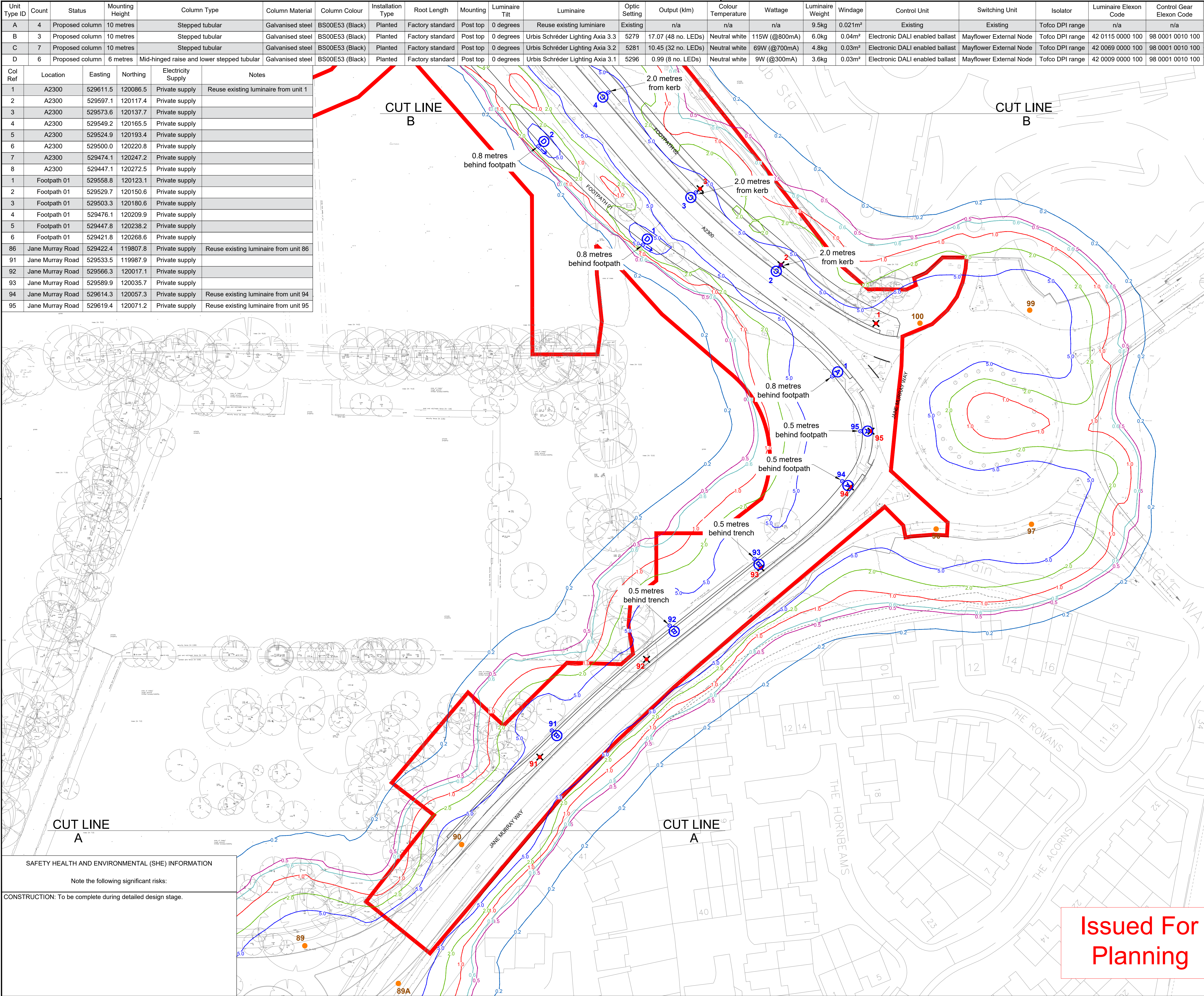
SCALE	DATE
1:500 @ A1	09/09/24

PAPER SIZE	DRAWN
A1	MWG

DRAWING NUMBER	CHECKED
EVO20014676-LD-001	RHJ

REVISION	APPROVED
C	SAB

Issued For Planning



Key

- Proposed street lighting column (Unit Type ID displayed inside symbol. Unit reference number displayed outside symbol).
- Existing lighting column to be retained.
- Street lighting column to be removed.
- Phase 3 Construction Works Boundary.

Lighting Classes (BS5489-1:2020)		ISO Lux contours
Jane Murray Way	C3/M3	5.0 lux
Jane Murray Way Roundabout	C2	2.0 lux
A2300	C3/M3	1.0 lux
Footpath 01 & 02	P5	0.6 lux
		0.5 lux
		0.2 lux

Notes

- Do not scale from drawing if not printed at original paper size.
- All street lighting equipment and works to be carried out in accordance with current West Sussex County Council specification. All references of standard drawings; refer to West Sussex County Council specification document unless otherwise stated.
- During works all traffic management to be in accordance with Chapter 8 of the Traffic Signs Manual.
- Columns are to be designed in accordance with BSEN40 and PD6547.
- Lighting columns to be fed by DNO supply unless otherwise shown.
- Columns are to be factory painted.
- All apparatus shall be sited so as to minimise, in so far as is reasonable and practical, nuisance, danger and obstruction to all residents, businesses and users of the highway.
- All illuminated apparatus must be installed and tested in compliance with BS7671 at the time of adoption.
- Trees or any other foliage on the site must not interfere with the lighting.

Enerveo working with:

C	OVERLAID LATEST RED LINE BOUNDARY	03/12/24	MWG
B	AMENDED FOLLOWING CLIENT COMMENTS	25/09/24	MWG
A	ORIGINAL ISSUE	09/09/24	MWG
REV	DESCRIPTION	DATE	BY

Enerveo Lighting Design - 1st Floor, Solent Park, Walton Road, Portsmouth, PO6 1UJ
email - lightingdesign@enerveo.com

TITLE	
STREET LIGHTING LAYOUT DRAWING (INCLUDING ISO LUX CONTOURS) SHEET 2 OF 3	

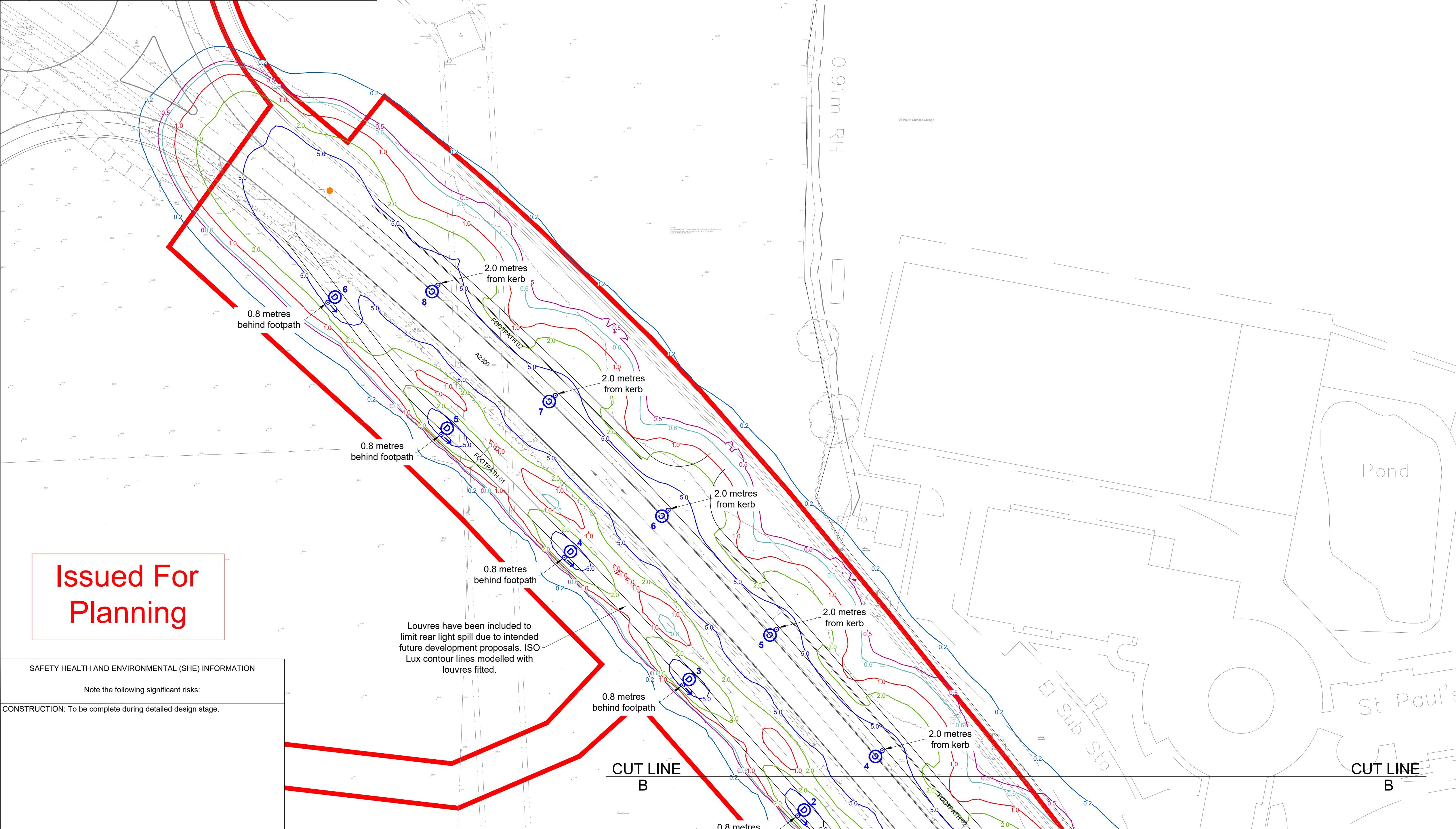
PROJECT	
BURGESS HILL WBLR PHASE 3	

SCALE	DATE
1:500 @ A1	09/09/24
	DRAWN
PAPER SIZE	CHECKED
	RHJ
DRAWING NUMBER	APPROVED
	SAB
EVO20014676-LD-002	
REVISION	
C	

Issued For Planning

Unit Type ID	Count	Status	Mounting Height	Column Type	Column Material	Column Colour	Installation Type	Root Length	Mounting	Luminaire Tilt	Luminaire	Optic Setting	Output (klm)	Colour Temperature	Wattage	Luminaire Weight	Windage	Control Unit	Switching Unit	Isolator	Luminaire Elexon Code	Control Gear Elexon Code
A	4	Proposed column	10 metres	Stepped tubular	Galvanised steel	BS00E53 (Black)	Planted	Factory standard	Post top	0 degrees	Reuse existing luminiare	Existing	n/a	n/a	n/a	9.5kg	0.021m²	Existing	Existing	Tofco DPI range	n/a	n/a
B	3	Proposed column	10 metres	Stepped tubular	Galvanised steel	BS00E53 (Black)	Planted	Factory standard	Post top	0 degrees	Urbis Schröder Lighting Axia 3.3	5279	17.07 (48 no. LEDs)	Neutral white	115W (@800mA)	6.0kg	0.04m²	Electronic DALI enabled ballast	Mayflower External Node	Tofco DPI range	42 0115 0000 100	98 0001 0010 100
C	7	Proposed column	10 metres	Stepped tubular	Galvanised steel	BS00E53 (Black)	Planted	Factory standard	Post top	0 degrees	Urbis Schröder Lighting Axia 3.2	5281	10.45 (32 no. LEDs)	Neutral white	69W (@700mA)	4.8kg	0.03m²	Electronic DALI enabled ballast	Mayflower External Node	Tofco DPI range	42 0069 0000 100	98 0001 0010 100
D	6	Proposed column	6 metres	Mid-hinged raise and lower stepped tubular	Galvanised steel	BS00E53 (Black)	Planted	Factory standard	Post top	0 degrees	Urbis Schröder Lighting Axia 3.1	5296	0.99 (8 no. LEDs)	Neutral white	9W (@300mA)	3.6kg	0.03m²	Electronic DALI enabled ballast	Mayflower External Node	Tofco DPI range	42 0009 0000 100	98 0001 0010 100

Col Ref	Location	Easting	Northing	Electricity Supply	Notes
1	A2300	529611.5	120086.5	Private supply	Reuse existing luminaire from unit 1
2	A2300	529597.1	120117.4	Private supply	
3	A2300	529573.6	120137.7	Private supply	
4	A2300	529549.2	120165.5	Private supply	
5	A2300	529524.9	120193.4	Private supply	
6	A2300	529500.0	120220.8	Private supply	
7	A2300	529474.1	120247.2	Private supply	
8	A2300	529447.1	120272.5	Private supply	
1	Footpath 01	529558.8	120123.1	Private supply	
2	Footpath 01	529529.7	120150.6	Private supply	
3	Footpath 01	529503.3	120180.6	Private supply	
4	Footpath 01	529476.1	120209.9	Private supply	
5	Footpath 01	529447.8	120238.2	Private supply	
6	Footpath 01	529421.8	120268.6	Private supply	
86	Jane Murray Road	529422.4	119807.8	Private supply	Reuse existing luminaire from unit 86
91	Jane Murray Road	529533.5	119987.9	Private supply	
92	Jane Murray Road	529566.3	120017.1	Private supply	
93	Jane Murray Road	529589.9	120035.7	Private supply	
94	Jane Murray Road	529614.3	120057.3	Private supply	Reuse existing luminaire from unit 94
95	Jane Murray Road	529619.4	120071.2	Private supply	Reuse existing luminaire from unit 95



Key

8

Proposed street lighting column (Unit Type ID displayed inside symbol. Unit reference number displayed outside symbol).

Existing lighting column to be retained.

Street lighting column to be removed.

Phase 3 Construction Works Boundary.

Lighting Classes (BS5489-1:2020)

Jane Murray Way

Jane Murray Way Roundabout

A2300

Footpath 01 & 02

C3/M3

C2

C3/M3

P5

ISO Lux contours

5.0 lux

2.0 lux

1.0 lux

0.6 lux

0.5 lux

0.2 lux

Notes

1. Do not scale from drawing if not printed at original paper size.

2. All street lighting equipment and works to be carried out in accordance with current West Sussex County Council specification. All references of standard drawings; refer to West Sussex County Council specification document unless otherwise stated.

3. During works all traffic management to be in accordance with Chapter 8 of the Traffic Signs Manual.

5. Columns are to be designed in accordance with BSEN40 and PD6547.

6. Lighting columns to be fed by DNO supply unless otherwise shown.

7. Columns are to be factory painted

8. All apparatus shall be sited so as to minimise, in so far as is reasonable and practical, nuisance, danger and obstruction to all residents, businesses and users of the highway.

9. All illuminated apparatus must be installed and tested in compliance with BS7671 at the time of adoption.

10. Trees or any other foliage on the site must not interfere with the lighting.

Enerveo working with:

Homes England

Jackson

waterman

C	OVERLAID LATEST RED LINE BOUNDARY	03/12/24	MWG
B	AMENDED FOLLOWING CLIENT COMMENTS	25/09/24	MWG
A	ORIGINAL ISSUE	09/09/24	MWG
REV	DESCRIPTION	DATE	BY

ENERVEO

Enerveo Lighting Design - 1st Floor, Solent Park, Walton Road, Portsmouth, PO6 1UJ
email - lightingdesign@enerveo.com

TITLE

STREET LIGHTING LAYOUT DRAWING (INCLUDING ISO LUX CONTOURS) SHEET 3 OF 3

PROJECT

BURGESS HILL WBLR PHASE 3

SCALE

1:500 @ A1

PAPER SIZE

A1

DRAWING NUMBER

EVO20014676-LD-003

DATE

09/09/24

DRAWN

MWG

CHECKED

RHJ

APPROVED

SAB

REVISION

C

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