

Attachment AAB

Yarralumla Brickworks Heritage Core

Specialist Lighting Design



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LIGHTING + AV DESIGN

Yarralumla Brickworks Heritage Core

SPECIALIST LIGHTING DESIGN

DA REPORT

In collaboration with

_SJB

_McGREGOR COXALL

_FORE GROUP

_DOMA

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_INTRODUCTION

Good design is an outstanding tool for placemaking. Excellent lighting enhances the architecture, support human experience within public realm and accent landscape and natural features.

Lighting designers are uniquely positioned to shape how people see the world. Bringing light to the immediate human level activates the public realm and supports better social interaction. Collaboration with clients, designers, and city planners is key to ensure there is balance and an appropriate hierarchy with the urban space. A solid knowledge of wayfinding opportunities, environmental considerations and landscaping ensures that the night-time experience is reflective of the project team's aspirations.

Exterior lighting equipment specified is robust, energy efficient, low glare and low maintenance to ensure the longevity of the design. Lighting is carefully coordinated with other design disciplines to create a fully integrated approach which reduces visual clutter, allows ease of maintenance, and minimises vandalism opportunities. Safety and personal security are important aspects of the public realm - creating considered and context appropriate urban lighting that meets code compliance in a creative manner.

Beyond simply illuminating a building, façade lighting has an important role in enhancing the public realm, providing a sense of wonder and cohesion within the night-time experience.

How people experience a building can change from the immediate street level to a view along a city block, and finally a long view of the building. At each unique perspective the scale, detail, and relationship of the viewer with the building changes – therefore the scale and legibility of façade lighting needs to be reviewed as part of the design process. This is particularly relevant for dynamic or content-based façade lighting.

It is important to consider aiming angles, the rhythm of the architecture, fitting visibility, and intuitive wayfinding – the main entrance to the building may not be on the main thoroughfare – so lighting must draw people intuitively to the right place. The specification of good quality lighting equipment with excellent optical control and glare reduction accessories address light pollution obligations.

The intent of enhancing and support human experience within the landscape is achieved through a sensitive approach to the nocturnal environment. The celebration of darkness is key design principle to our approach to landscape lighting and the application of light and darkness can create a sense of intimacy and scale in spaces which in the day are wide open expanses.

A strong technical understanding of how the human eye adapts to considered ambient light levels ensures that less illumination is required to enhance feature elements, such as trees or natural features, whilst maintaining the appropriate levels of contrast to create a visually engaging experience. This nuanced application of light is critical to ensure a well-balanced environment, creating a visual hierarchy between planting and soft landscaping, integrated lighting, and the larger built environment.

Acknowledging the environmental impact exterior lighting has on both the natural environment and how people experience the world around them, **the** approach to the exterior lighting for the BSLSC is to maintain lighting at the “human-scale” and providing unrestricted views to the night sky. The aim is to integrate lighting into the landscape in a discreet and clever manner.

LIGHTING DESIGN CONSIDERATIONS

LIGHT QUALITY

Light Distribution and Beam Control:

Luminaires with suitable optical distribution will be specified to ensure light is directed only to where it is required; minimizing any spill light and maximizing efficiency. Appropriate luminaire accessories such as glare shields, baffles and lenses may be used to further control the light.

Colour Temperature:

The colour temperature of the lighting will be appropriate to the material, in this case 2700K and 3000K warm white.

Colour Rendering:

The colour rendering characteristics of light sources throughout the project will be minimum of CRI 80, in order to accurately represent materials, people and finishes.

CONTROL

Utilisation of Smart Control:

Critical to the ease of daily operation and efficient energy use for the complex is ensuring all external lighting is dimmable and controllable via a central building control system.

SUSTAINABILITY

Lighting technology:

Best practice lighting technology will be used to ensure long life, fit-for purpose and low energy (e.g. LED technology)

Lumen depreciation:

Luminaires specified will have LED sources with a minimum lumen maintenance value of L70 B10 at 50,000hrs. This means that at 50,000hrs of operation, 90% of the luminaires will achieve at least 70% of their original lumen output.

DURABILITY

IP rating:

The IP rating denotes the ability of a luminaire enclosure to protect internal parts from the outside environment. All exterior uplighting luminaires will be protected to IP67, and downlighting luminaires will be protected to IP65 or greater.

IK Rating:

The IK rating denotes the degree of a protection for electrical equipment against external mechanical impacts in accordance with IEC 62262:2002 and IEC 60068-2-75:1997. All luminaires are to be certified to an appropriate degree of protection. The mounting height of luminaires is to be considered for public access to minimize the opportunity for vandalism.

SAFETY

The lighting must facilitate safe use of the precinct at night. This includes vertical illumination as well as horizontal light levels. The lighting must achieve the required light levels for the relevant categories as noted in Australian Standards 1158

GUIDELINES & REGULATIONS

The following regulations & guidelines will inform the lighting design scheme:

_AS/NZS 1158:2020 - Lighting for roads and public spaces

_AS/NZS 4282:2019 - Control of the obtrusive effects of outdoor lighting

LIGHTING DESIGN OBJECTIVES

ENHANCE PUBLIC SPACE

The lighting shall enrich the experience of public space by inviting visitors to engage with the nighttime environment and encourage people to pause and dwell at the activation nodes.

ENHANCE UNIQUE CHARACTER

The lighting shall serve to enhance the architectural characteristics, evoking the unique character and narrative of the site. The intent is to highlight architectural features of the façade as well as landscape features.

CREATE VISUAL INTEREST

Light and shadow, shall be used to create atmosphere and enhance visual interest and excitement in the area at nighttime, rather than focusing solely on illumination levels.

REINFORCE HUMAN SCALE

Lighting shall enhance the heritage buildings at the brickworks core as well as the landscape elements, without imposing upon it. Lighting equipment shall be carefully selected to ensure an appropriate scale, distribution and placement.

PROMOTE INTUITIVE WAYFINDING

The lighting shall encourage intuitive wayfinding and promote exploration of various areas within the precinct.

MINIMIZE GLARE AND VISUAL DISTRACTION

Glare from lighting shall be minimised in all applications through effective aiming and appropriate luminaire selection and design. The lighting shall be integrated into the architecture and structures where possible, minimising visual clutter and obstructions during both day and night.

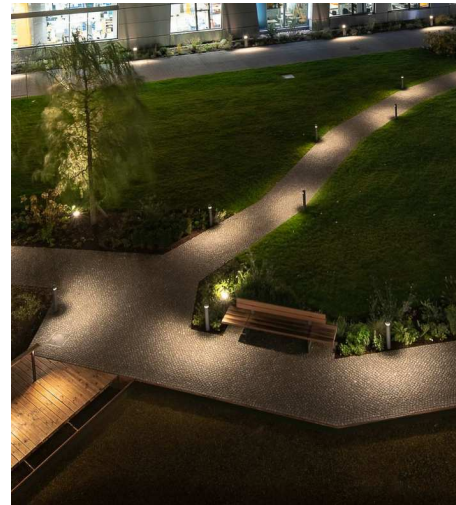
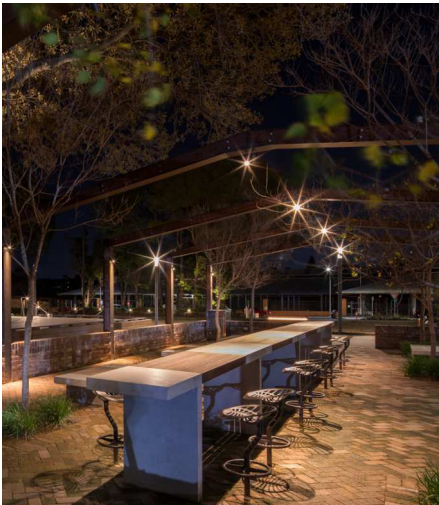
ENCOURAGE SUSTAINABILITY THROUGH DESIGN

Lighting shall aim to preserve and protect the night environment by minimizing upward light pollution, contributing to the sky glow. Control of lighting, such as dimming and switching lighting control, and targeted application of light, rather than a blanket lighting approach, shall contribute to the sustainable use of energy.

LIGHTING DESIGN PRINCIPLES



- Public pathways shall be lit to the appropriate P-categories as stated in AS1158 and assist safe orientation throughout the precinct. The selection and mounting arrangements of luminaires shall consider the size and scale of the area to ensure they are harmonious within the development.
- Support in creating a distinctive visual representation for the Brickworks heritage core, emphasizing architectural form and finish to elevate the charm of its historic structures. Implement a thoughtful arrangement of functional and accent lighting, fostering a warm and inviting ambience. Additionally, aids in facilitating easy navigation and wayfinding across the precinct.
- Low-level lighting shall be used to provide a human scale and more inviting experience, encouraging night-time activation of the area.
- Consideration to be given to light fitting installation and maintenance.
- Contain use of uplighting to select areas as well as careful luminaire placement, aiming and beam control shall minimize light spill toward the sky.



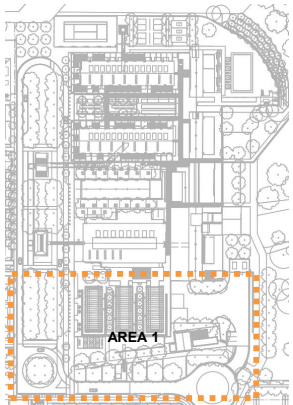
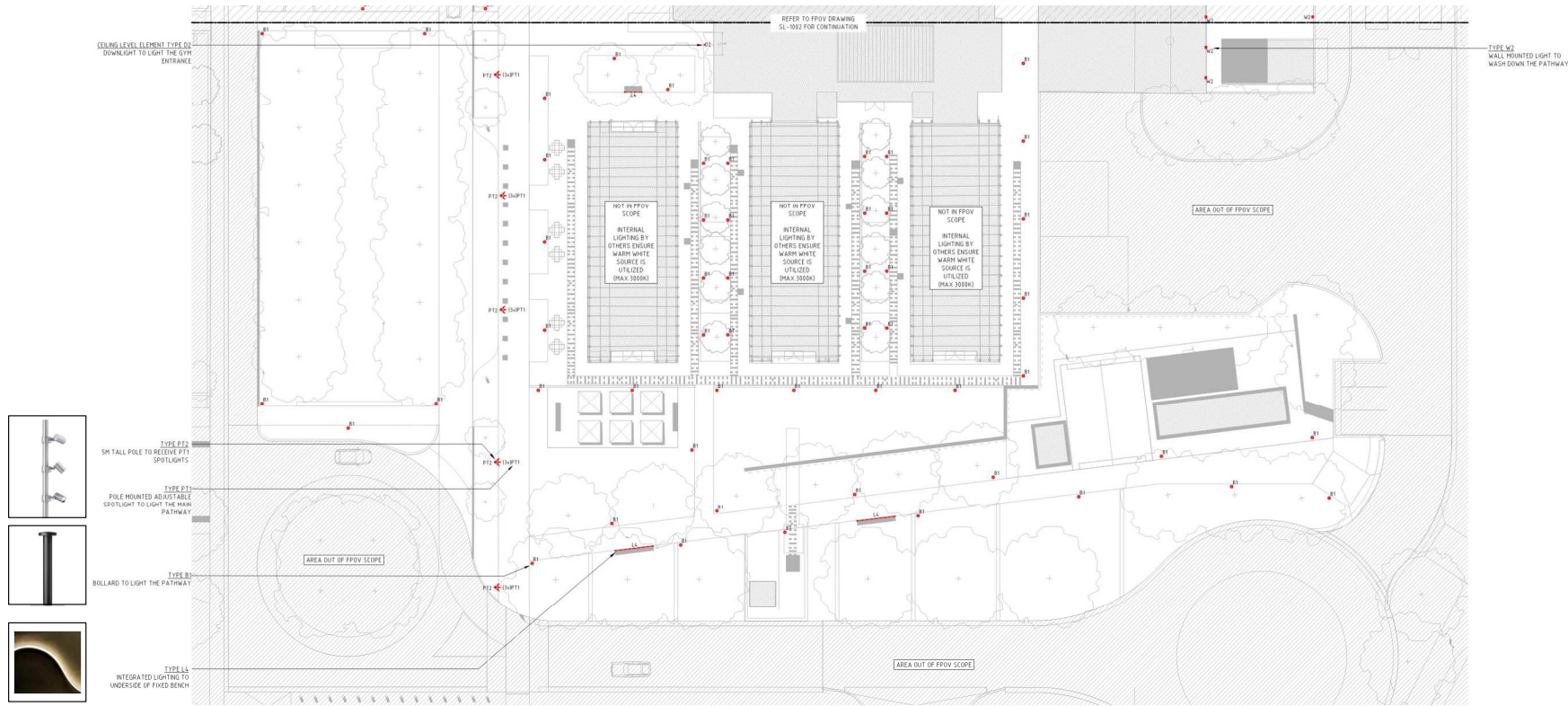
LIGHTING SPECIFICATION PRINCIPLES



- Lighting equipment shall be 'minimal' in its appearance unless intentionally used as a feature. It's form and finish shall be in harmony with the surrounding urban context.
- Pole mounted adjustable spotlights for high activity zone
- Medium height luminaires for circulation such as bollard and wall-fixed downlight
- Integrated luminaires such as linear LED to have no visible chip dotting
- Best practice lighting technology will be used to ensure fit-for purpose, long life, and low energy use. Specification of low wattage LED luminaires will require less power and lower running costs.
- Luminaires selected shall be in accordance with AS/NZS 60598, AS1158, and AS4783. Luminaires shall be from reputable manufacturers and practice quality management systems in accordance with ISO standards (ISO 9001-2000). Dimmable lighting will be used to allow for reduced, energy saving light levels late at night.
- Ingress protection of fittings from dust and water shall be selected as required.
- Glare control accessory such as honeycomb louver, concentric anti-glare ring or glare shield to low level luminaire
- Robust locking mechanisms to ensure aiming of lighting retained.



1_LIGHTING PLAN



AREA 1_GROUND LEVEL

Note : Only lighting required for public realm compliance is shown

1_LIGHTING PLAN



CEILING LEVEL ELEMENT
TYPE S3
SURFACE MOUNTED ADJUSTABLE SPOTLIGHT
TO LIGHT THE OUTDOOR ZONE UNDER NEW
AWNING



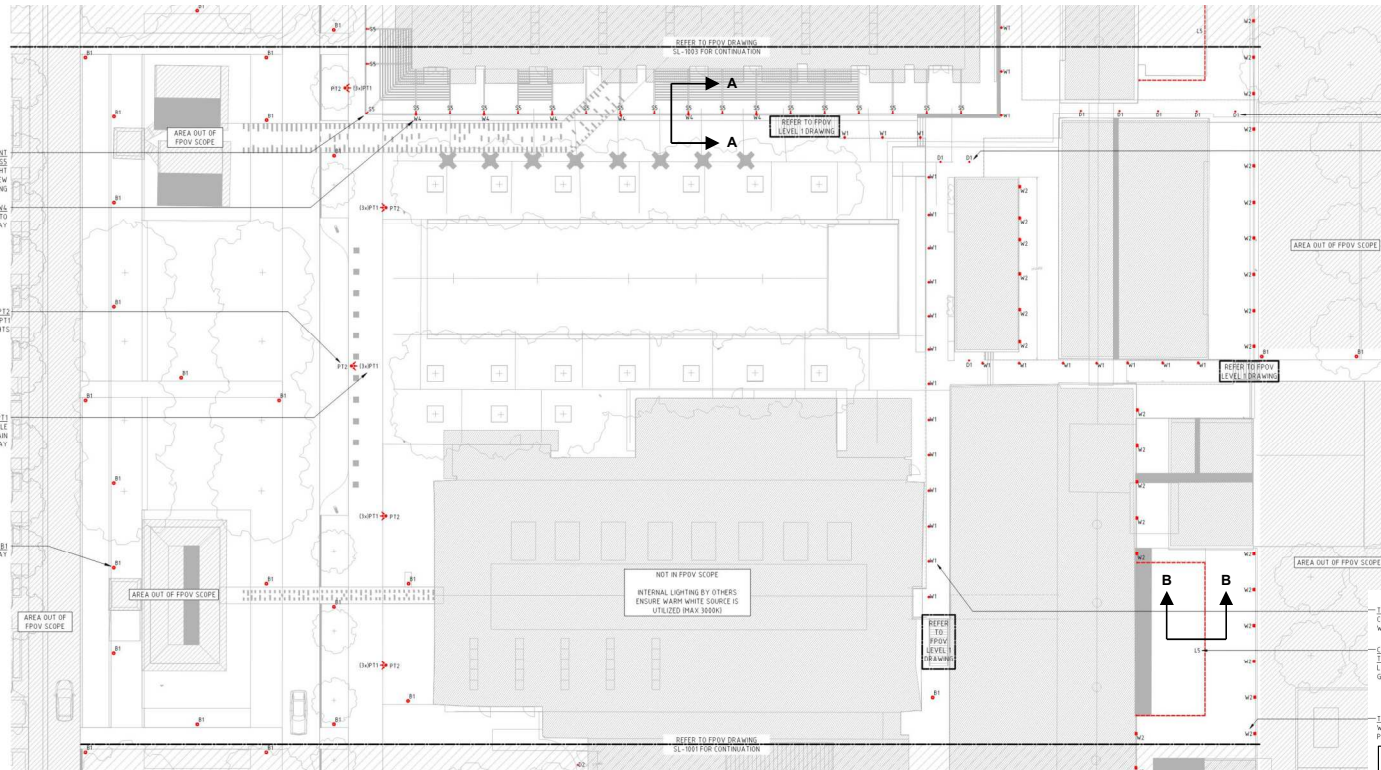
TYPE W6
COLUMN MOUNTED DOWNLIGHT TO
LIGHT THE WALKWAY



TYPE P12
5M TALL POLE TO RECEIVE PT2
SPOTLIGHTS



TYPE B1
BOLLARD TO LIGHT THE WALKWAY



CEILING LEVEL ELEMENT
TYPE L5
DOWNLIGHT TO UNDERSIDE OF LEVEL 1 BRIDGE

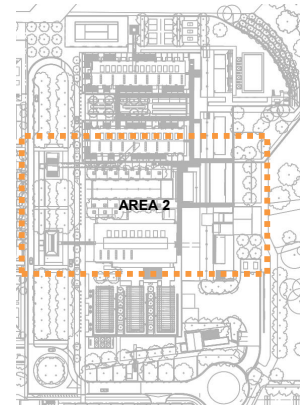
CEILING LEVEL ELEMENT
TYPE L5
DOWNLIGHT TO PROVIDE GENERAL LIGHTING TO LIFT
& AMENITIES ENTRIES



TYPE W1
COLUMN MOUNTED DOWNLIGHT TO LIGHT THE
WALKWAY

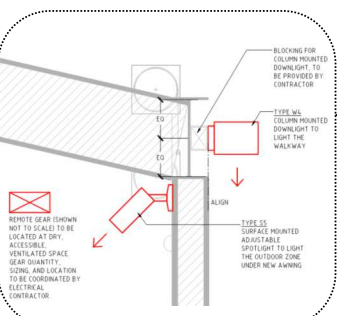
CEILING LEVEL ELEMENT
TYPE L5
LINEAR LED MOUNTED TO SOFFIT TO PROVIDE
GENERAL LIGHTING TO GROUND LEVEL

TYPE W3
WALL MOUNTED LIGHT TO WASH DOWN THE
PATHWAY

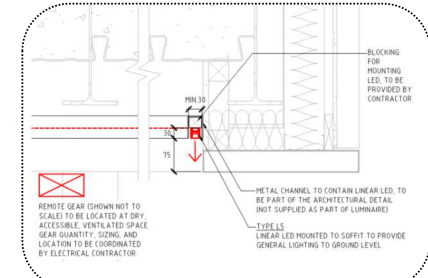


AREA 2_GROUND LEVEL

Note : Only lighting required for public realm compliance is shown

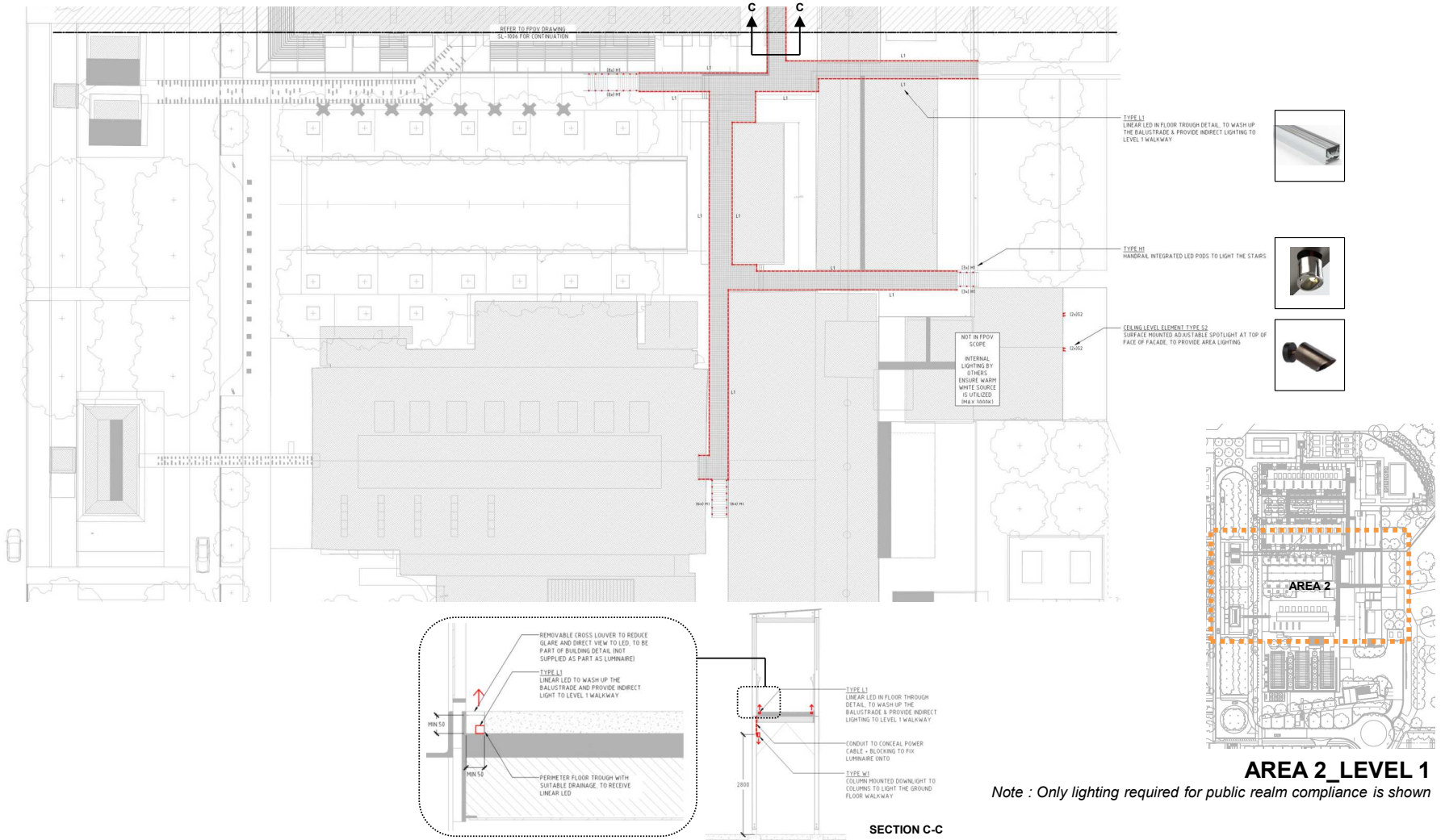


SECTION A-A

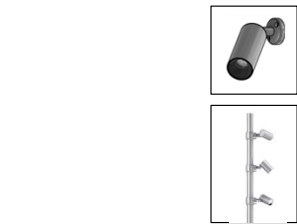


SECTION B-B

1_LIGHTING PLAN



1_LIGHTING PLAN



CEILING LEVEL ELEMENT
TYPE P12
SURFACE MOUNTED ADJUSTABLE SPOTLIGHT TO LIGHT THE OUTDOOR ZONE UNDER NEW AWNING

TYPE P12
SM TALL POLE TO RECEIVE P11 SPOTLIGHTS

TYPE P11
POLE MOUNTED ADJUSTABLE SPOTLIGHT TO LIGHT THE MAIN PATHWAY



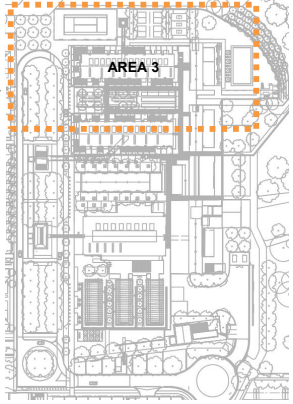
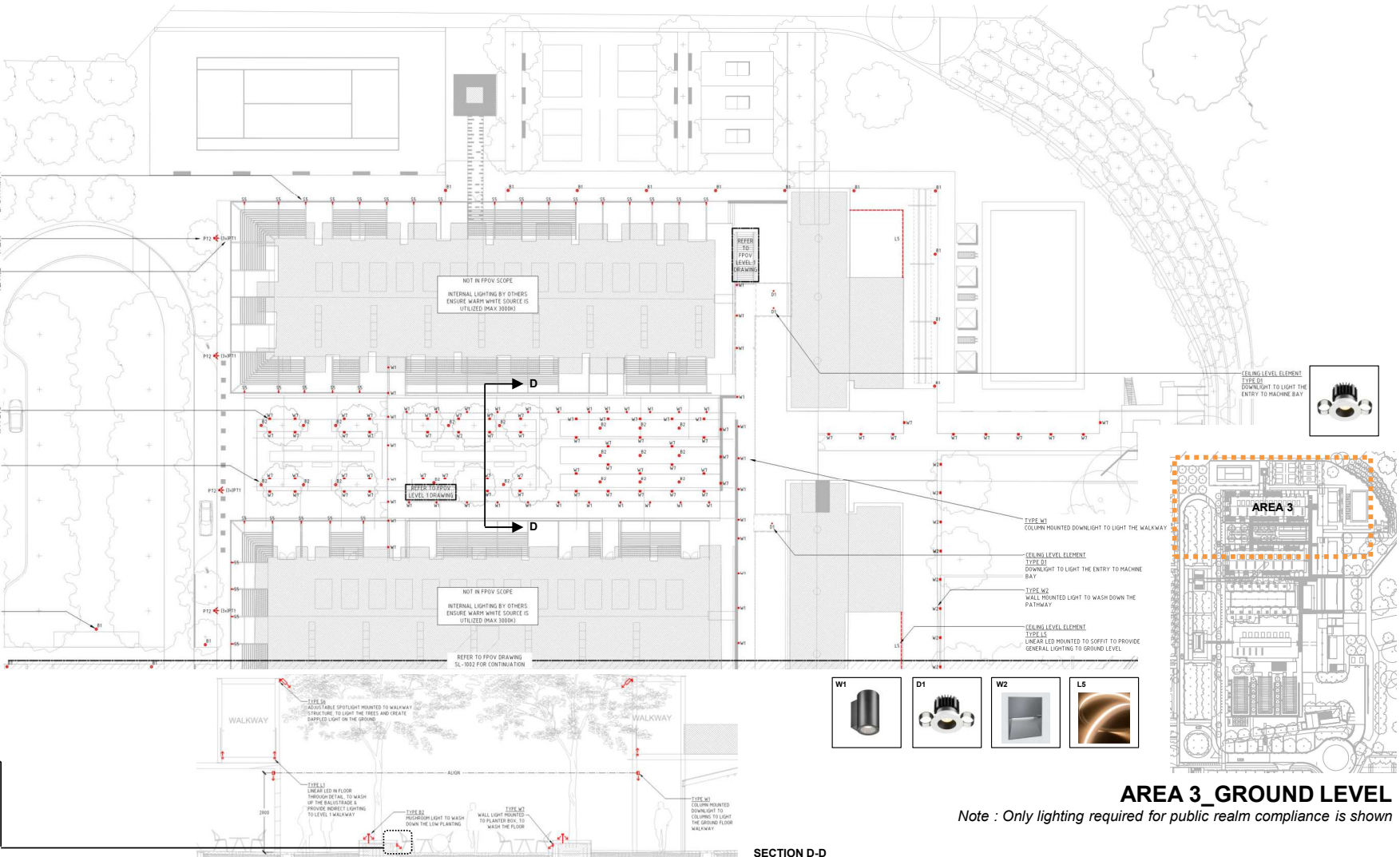
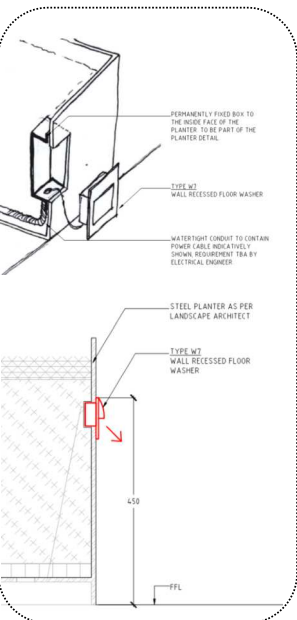
TYPE W1
WALL LIGHT POINTED TO PLANTER BOX TO WASH THE FLOOR



TYPE B1
MICRODIMMER LIGHT TO WASH DOWN THE LOW PLANTING



TYPE B2
BOLLARD TO LIGHT THE PATHWAY

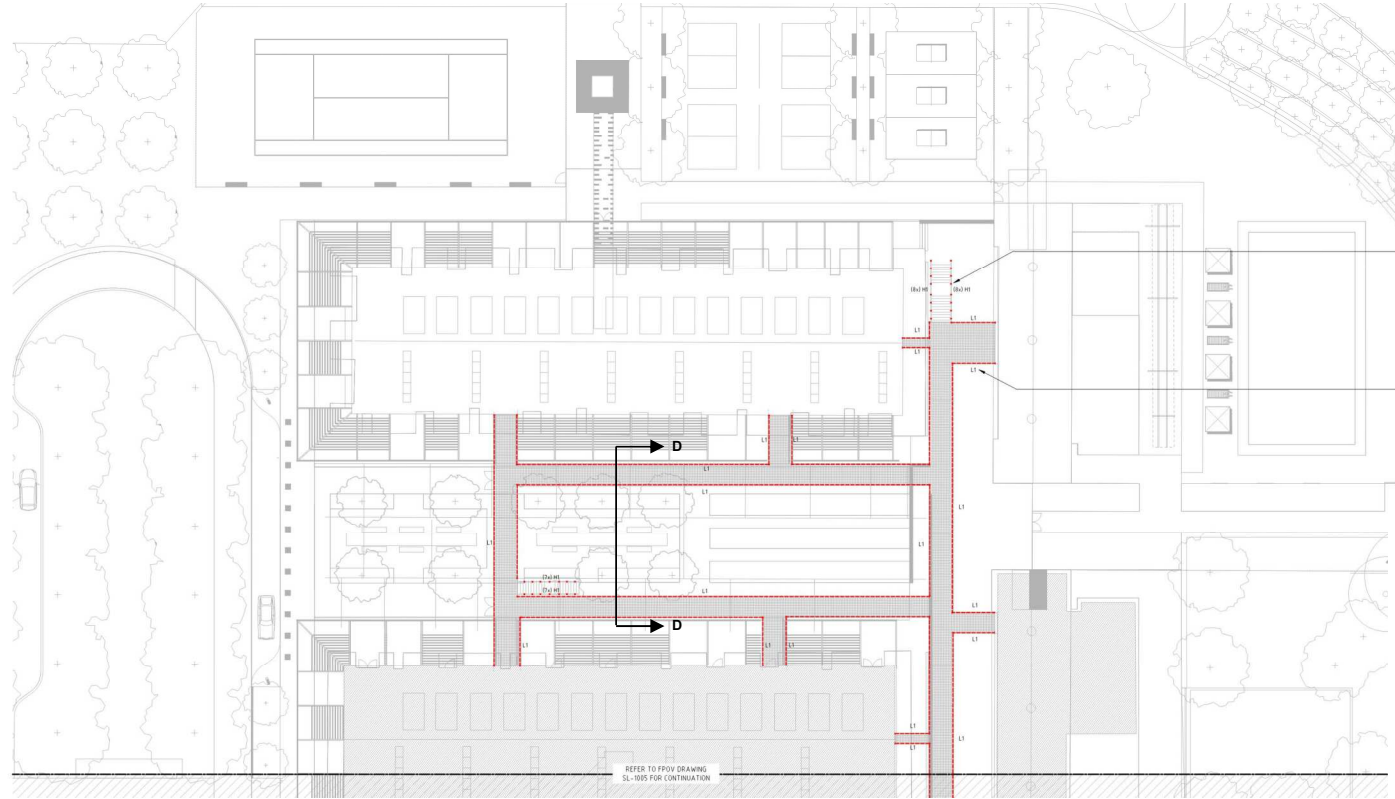


SECTION D-D

AREA 3_GROUND LEVEL

Note : Only lighting required for public realm compliance is shown

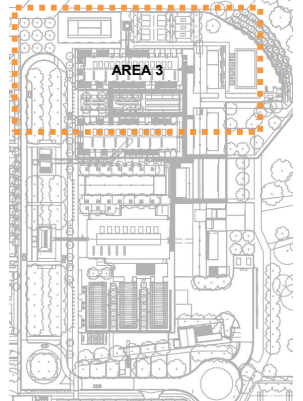
1_LIGHTING PLAN



TYPE 03
HANDRAIL INTEGRATED LED PDS TO LIGHT THE STAIRS

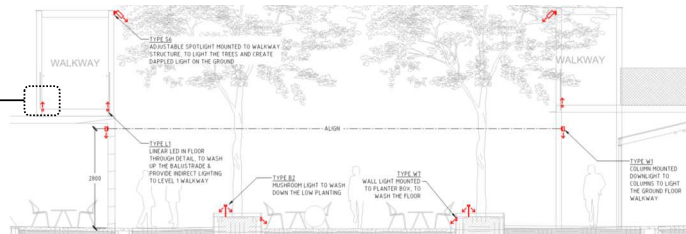
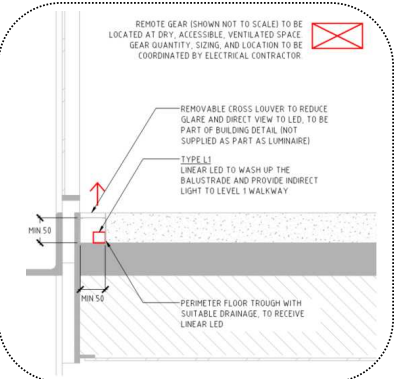


TYPE L1
TRAP AND FITS IN FLOOR THROUGH PUTS TO WASH UP THE BALUSTRADE & PROVIDE NOBLET LIGHTING TO LEVEL 1 WALKWAY



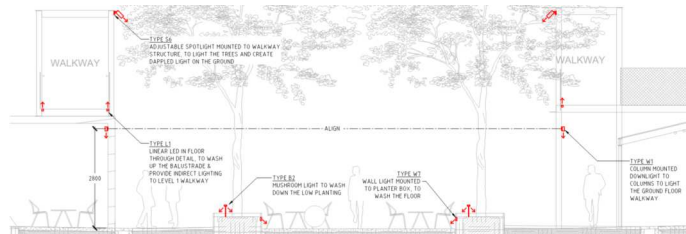
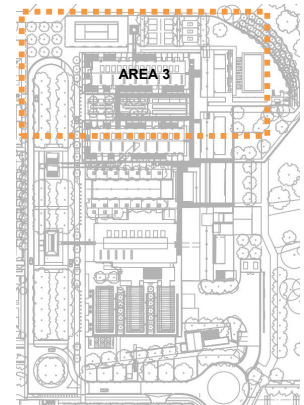
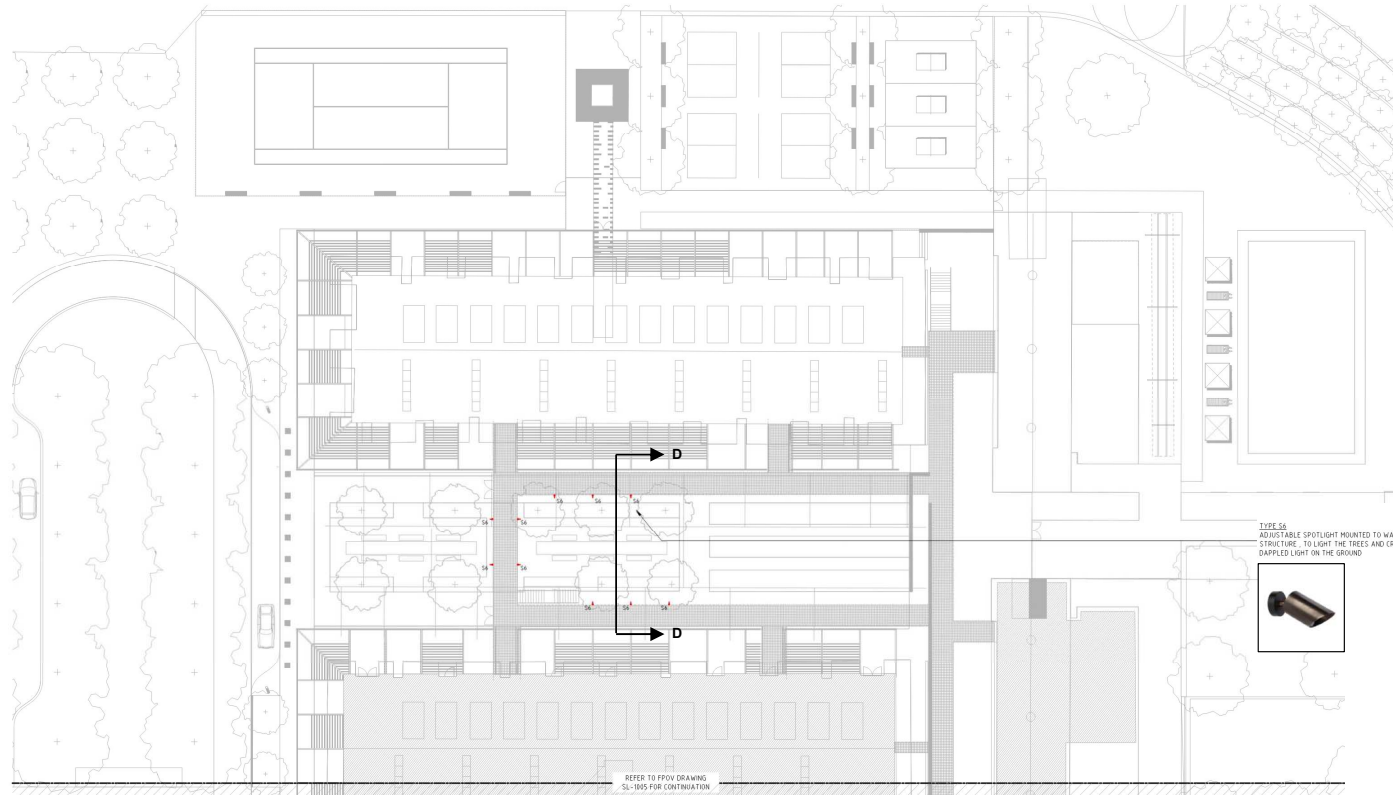
AREA 3_LEVEL 1

Note : Only lighting required for public realm compliance is shown



SECTION D-D

1_LIGHTING PLAN



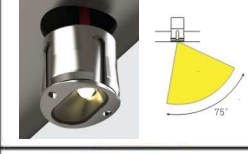



SECTION D-D

AREA 3_ROOF LEVEL

Note : Only lighting required for public realm compliance is shown

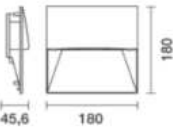
2_LUMINAIRE TYPOLOGY

CODE	IMAGE	LUMINAIRE TYPE	MOUNTING	ACCESSORIES	WATTAGE	CCT	CRI	OPTICS	DIMENSIONS	IP RATING
B1		Bollard	Ground Surface	N/A	18	3000	>80	Symmetric		66
B2		Bollard	Ground Surface	N/A	3	3000	>80	Symmetric		65
D1		Fixed Downlight	Ceiling Recessed	Honeycomb louver	10	3000	>90	Medium		65
D2		Fixed Downlight	Ceiling Recessed	Honeycomb louver	10	3000	>90	Medium		65
H1		Fixed Downlight	Handrail Integrated	N/A	1.4	3000	>80	Asymmetric		65
L1		Linear	Ground Surface	N/A	14.5	3000	>90	Wide		67

2_LUMINAIRE TYPOLOGY

CODE	IMAGE	LUMINAIRE TYPE	MOUNTING	ACCESSORIES	WATTAGE	CCT	CRI	OPTICS	DIMENSIONS	IP RATING
L4		Linear	Integrated	N/A	5	3000	>80	Frosted Diffuser		67
L5		Linear	Integrated	N/A	12	3000	>90	Frosted Diffuser		67
PT1		Spotlight	Pole mounted (onto type PT2)	Antiglare snoot & Honeycomb louwer	9.1	3000	>80	Wide Flood		66
PT2		Pole	Ground Surface	N/A	N/A	N/A	N/A	N/A		54
S2		Spotlight	Wall Surface	Antiglare snoot & Honeycomb louwer	18	3000	>80	Medium		65
S5		Spotlight	Wall Surface	Antiglare snoot & Honeycomb louwer	9	2700	>80	Wide		65

2_LUMINAIRE TYPOLOGY

CODE	IMAGE	LUMINAIRE TYPE	MOUNTING	ACCESSORIES	WATTAGE	CCT	CRI	OPTICS	DIMENSIONS	IP RATING
S6		Spotlight	Wall Surface	Antiglare snoot & Honeycomb louver	18	3000	>80	Medium		65
W1		Fixed Downlight	Wall Surface	N/A	10	3000	>90	Wide Flood		67
W2		Wall Recessed	Floor Washer	N/A	10	3000	>80	Asymmetric		66
W4		Wall Surface	Fixed Downlight	N/A	9.7	3000	>80	Asymmetric (forward throw)		66
W7		Wall Recessed	Floor Washer	N/A	6	3000	>80	Asymmetric		66

3_LIGHTING CODE COMPLIANCE

AS/NZS 1158.3 Lighting for roads and public spaces
Pedestrian area (Category P) lighting – performance and design requirements

TABLE 2.2
LIGHTING SUBCATEGORIES FOR PEDESTRIAN AND CYCLIST PATHS

1	2	3	4	5
Type of pathway		Selection criteria ^{a,b,c}		
General description	Basic operating characteristics	Pedestrian/ cycle activity	Fear of crime	Applicable lighting subcategory
Pedestrian or cycle orientated pathway, e.g. footpaths, including those along local roads ^d and arterial roads ^e , walkways, lanes, park paths, cyclist paths	Pedestrian and or cycle traffic only	N/A	High	PP1 ^c
		High	Medium	PP2 ^c
		Medium	Medium	PP3
		Medium	Low	PP4
		Low	Low	PP5

TABLE 2.4
LIGHTING SUBCATEGORIES FOR CONNECTING ELEMENTS

Type of area	Applicable lighting subcategory
Subways, including associated ramps or stairways	PE1
Steps and stairways, ramps, footbridges, pedestrian ways	PE2
Ramps and footbridges associated with low use pathways (e.g. in parks and reserves)	PE3

NOTE: Subways are listed as a separate subcategory because of a fear of crime.

TABLE 3.6
VALUES OF LIGHT TECHNICAL PARAMETERS FOR CONNECTING ELEMENTS

1	2	3	4	5
Lighting subcategory	Light technical parameters (LTP)			
	Average horizontal illuminance ^{a,b,d} (E _h) lx	Point horizontal illuminance ^{a,b} (E _{ph}) lx	Illuminance (horizontal) uniformity ^c Cat. P (U _z)	Point vertical illuminance ^{a,b} (E _{pv}) lx
PE1	35	17.5	8	17.5
PE2	Same as for highest lighting subcategory applying to areas that abut the connecting element but, where forming part of a road or pathway, to be not less than subcategory PA3 in Table 3.5.			
PE3	Same as for highest lighting subcategory applying to areas that abut the connecting element but, where forming part of a road or pathway, to be not less than subcategory PP3 in Table 3.4.			



- PRIMARY PATHWAY (PP4)
- SECONDARY PATHWAY (PP5)
- COVERED WALKWAY & STAIRCASE (PP3)

3_LIGHTING CODE COMPLIANCE

AS/NZS 1158.3 Lighting for roads and public spaces
Pedestrian area (Category P) lighting – performance and design requirements

TABLE 3.4

VALUES OF LIGHT TECHNICAL PARAMETERS
FOR PATHWAYS AND CYCLIST PATHS

Lighting subcategory	Light technical parameters (LTP)			
	Average horizontal illuminance ^{a,b} (\bar{E}_h) lx	Point horizontal illuminance ^{a,b,d} (E_{rh}) lx	Illuminance (horizontal) uniformity ^c Cat. P (U_{E2})	Point vertical illuminance ^{a,b} (E_{pv}) lx
PP1	10	2	5	1
PP2	7	1	5	0.3
PP3	3	0.5	5	0.1
PP4	1.5	0.25	5	0.05*
PP5	0.85	0.14	5	0.02*

TABLE 3.6

VALUES OF LIGHT TECHNICAL PARAMETERS
FOR CONNECTING ELEMENTS

Lighting subcategory	Light technical parameters (LTP)			
	Average horizontal illuminance ^{a,b,d} (\bar{E}_h) lx	Point horizontal illuminance ^{a,b} (E_{rh}) lx	Illuminance (horizontal) uniformity ^c Cat. P (U_{E2})	Point vertical illuminance ^{a,b} (E_{pv}) lx
PE1	35	17.5	8	17.5
PE2	Same as for highest lighting subcategory applying to areas that abut the connecting element but, where forming part of a road or pathway, to be not less than subcategory PA3 in Table 3.5.			
PE3	Same as for highest lighting subcategory applying to areas that abut the connecting element but, where forming part of a road or pathway, to be not less than subcategory PP3 in Table 3.4.			

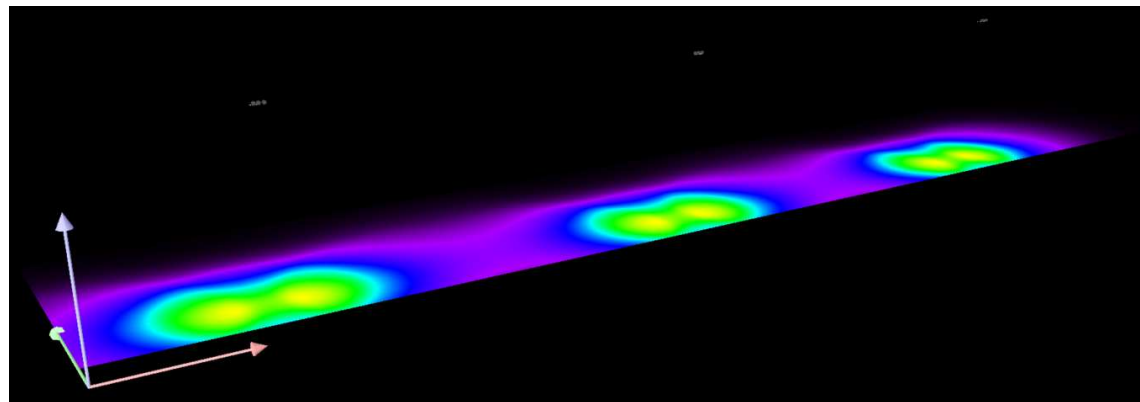
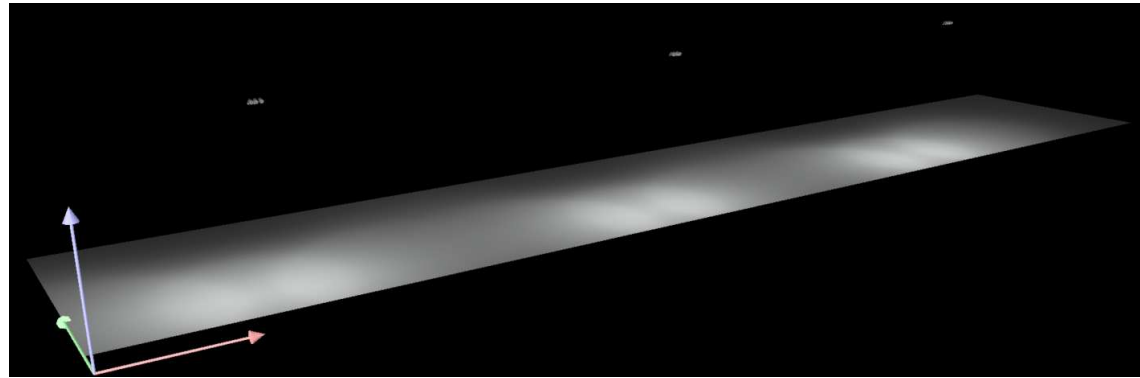


- PRIMARY PATHWAY (PP4)
- SECONDARY PATHWAY (PP5)
- COVERED WALKWAY & STAIRCASE (PP3)

3_LIGHTING CODE COMPLIANCE

PRIMARY PATHWAY (PP4)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	15 lux	>1.5 lux	Pass
Point horizontal illuminance	6.36 lux	>0.25 lux	Pass
Point vertical illuminance	1.15 lux	>0.05 lux	Pass
Uniformity	2.1	<5	Pass

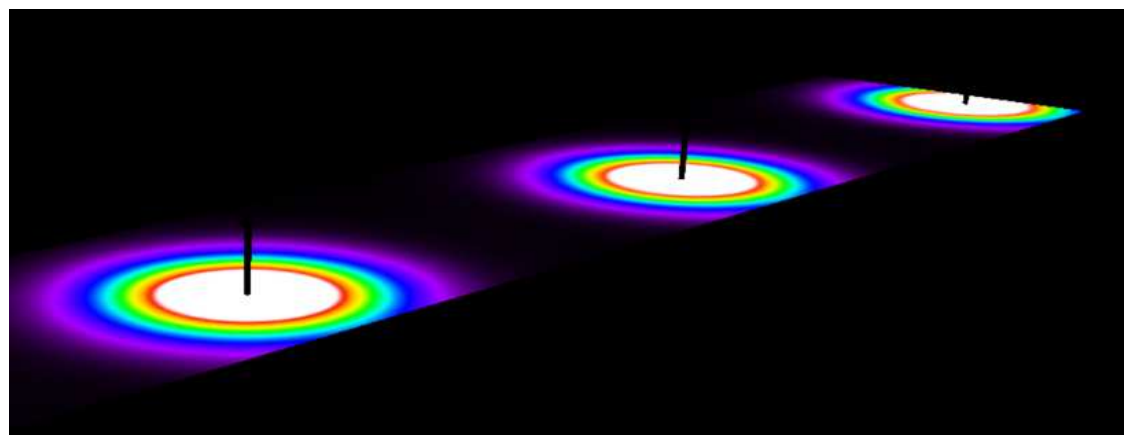
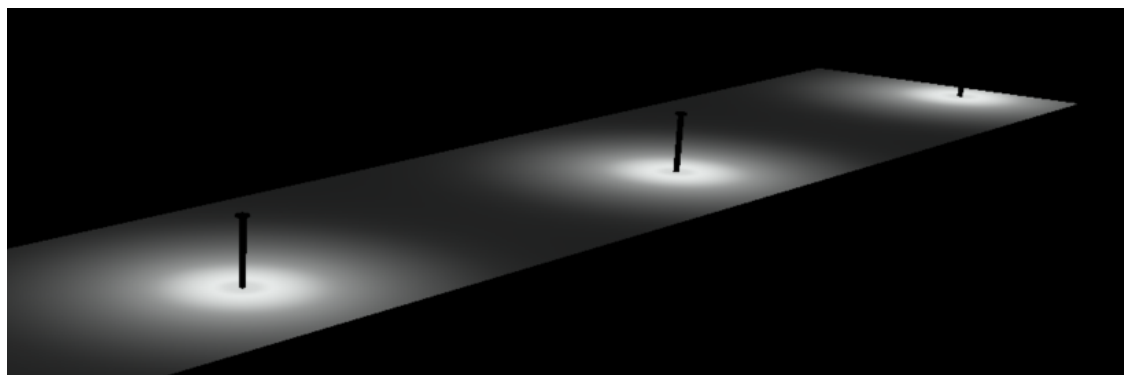


3_LIGHTING CODE COMPLIANCE

SECONDARY PATHWAY (PP5)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	9.34 lux	>0.85 lux	Pass
Point horizontal illuminance	0.15 lux	>0.14 lux	Pass
Point vertical illuminance	n/a	n/a*	n/a
Uniformity	4.28	<5	Pass

*not applicable for luminaires with mounting height of 1.5m or less

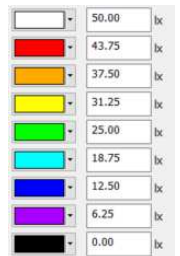
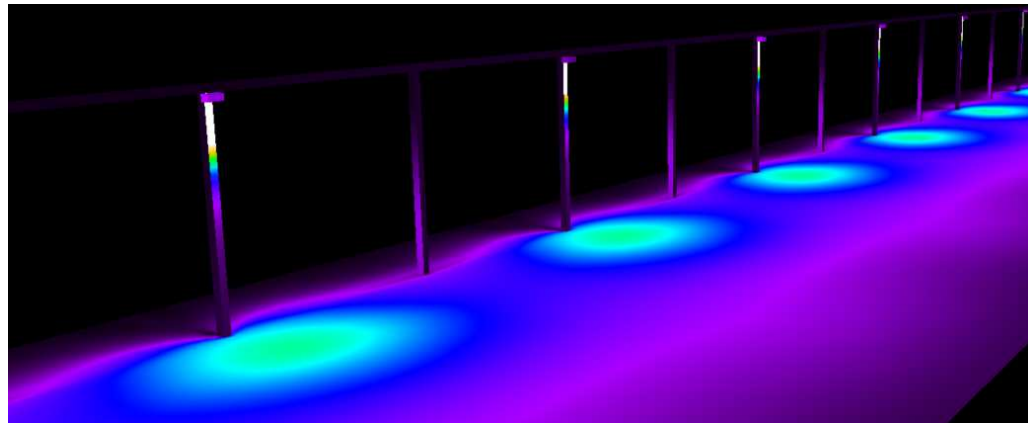
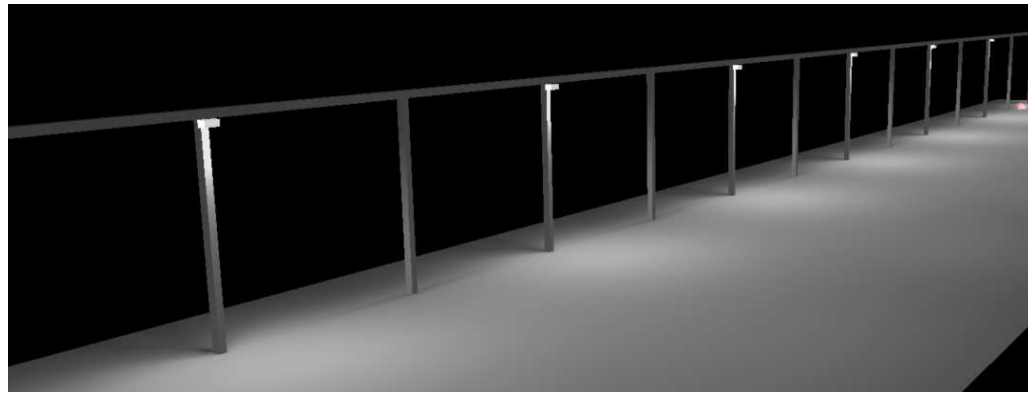


3_LIGHTING CODE COMPLIANCE



SECONDARY PATHWAY (PP5)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	12 lux	>0.85 lux	Pass
Point horizontal illuminance	7.74 lux	>0.14 lux	Pass
Point vertical illuminance	1.07 lux	0.02 lux	Pass
Uniformity	1.75	<5	Pass



3_LIGHTING CODE COMPLIANCE

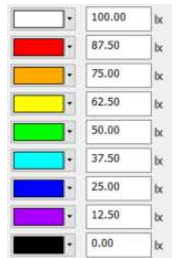
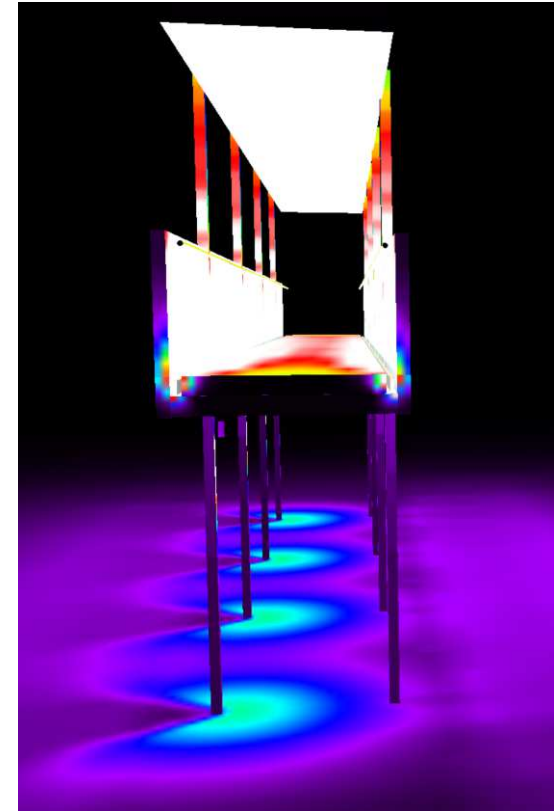
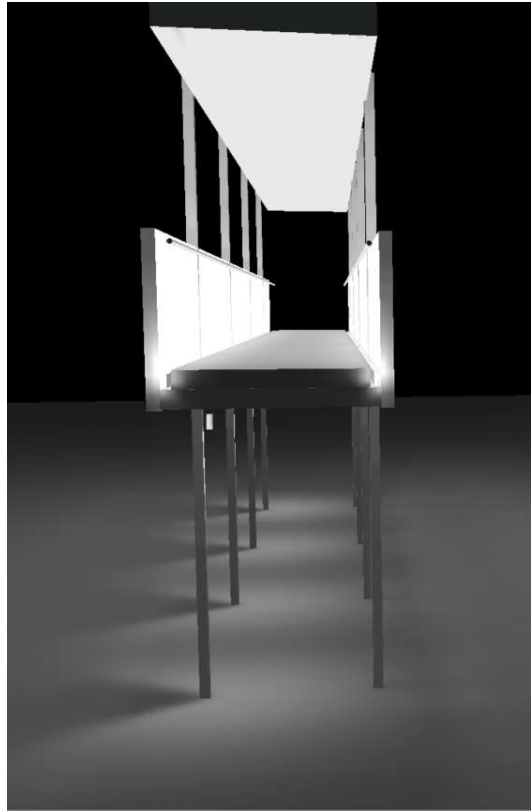


COVERED WALKWAY GROUND LEVEL (PP3)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	21 lux	>3 lux	Pass
Point horizontal illuminance	12 lux	>0.5 lux	Pass
Point vertical illuminance	3.54 lux	0.1	n/a
Uniformity	1.48	<5	Pass

COVERED WALKWAY LEVEL 1 (PP3)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	89 lux	>3 lux	Pass
Point horizontal illuminance	88 lux	>0.5 lux	Pass
Point vertical illuminance	55 lux	0.1	n/a
Uniformity	1.01	<5	Pass

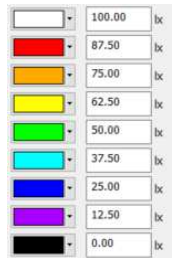
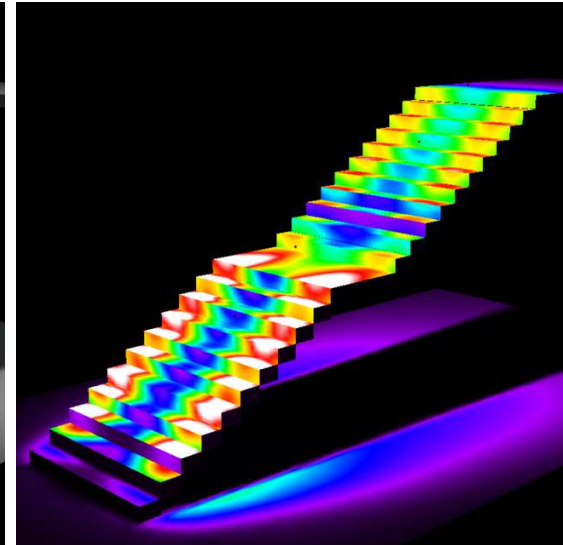
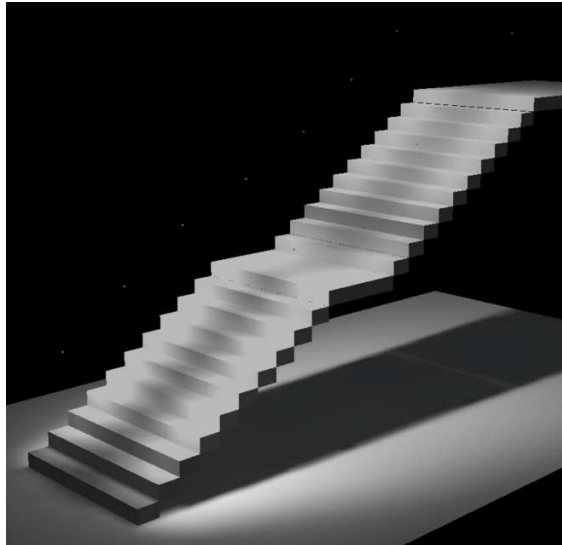


3_LIGHTING CODE COMPLIANCE



STAIRS (PP3)

Requirement	Result	Target	Pass / Fail
Average horizontal illuminance	65.3 lux	>3 lux	Pass
Point horizontal illuminance	6.76 lux	>0.5 lux	Pass
Point vertical illuminance	0.39 lux	0.1 lux	Pass
Uniformity	1.73	<5	Pass

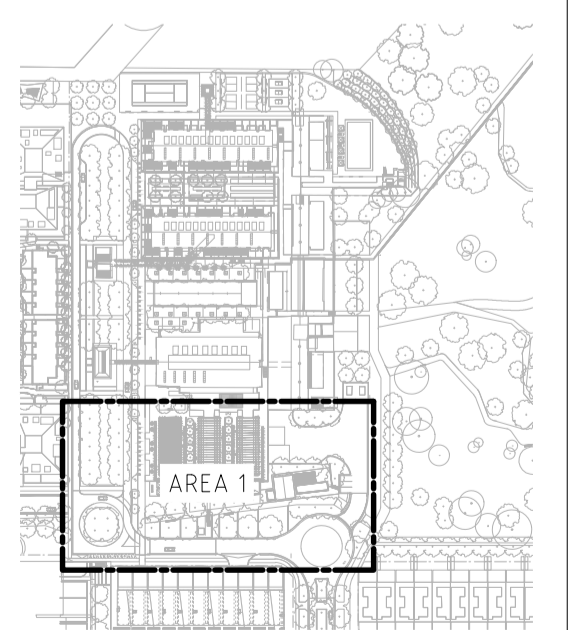
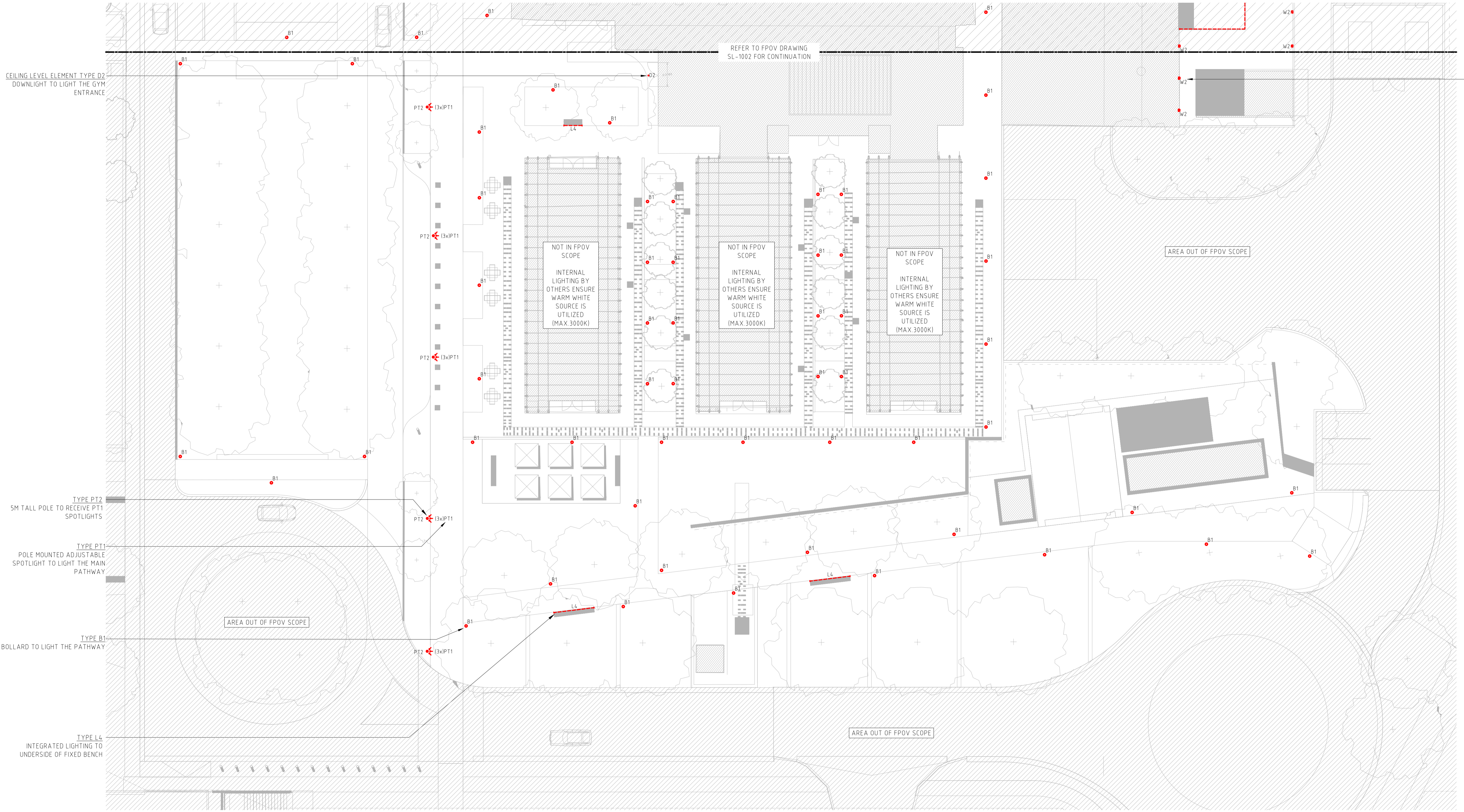


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OV

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MELBOURNE
GOLD COAST
PERTH
DUBAI
SINGAPORE
INDONESIA
HONG KONG

LIGHTING + AV DESIGN

4_APPENDIX



NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

1 GROUND FLOOR AREA 1 – LIGHTING PLAN
1001 1:200

NOTES

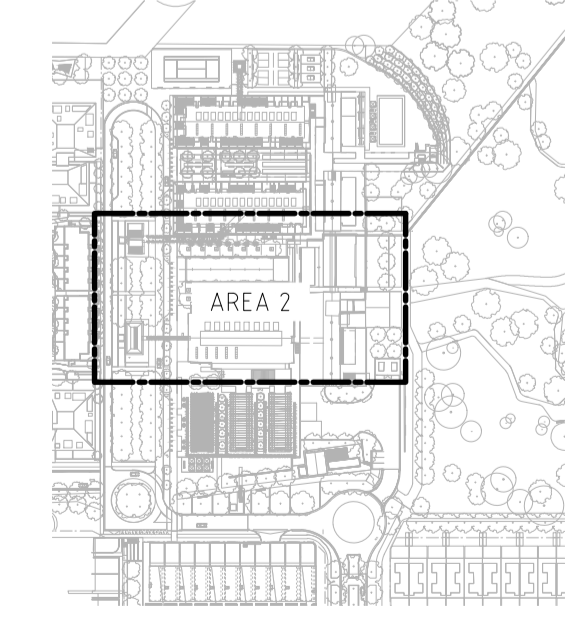
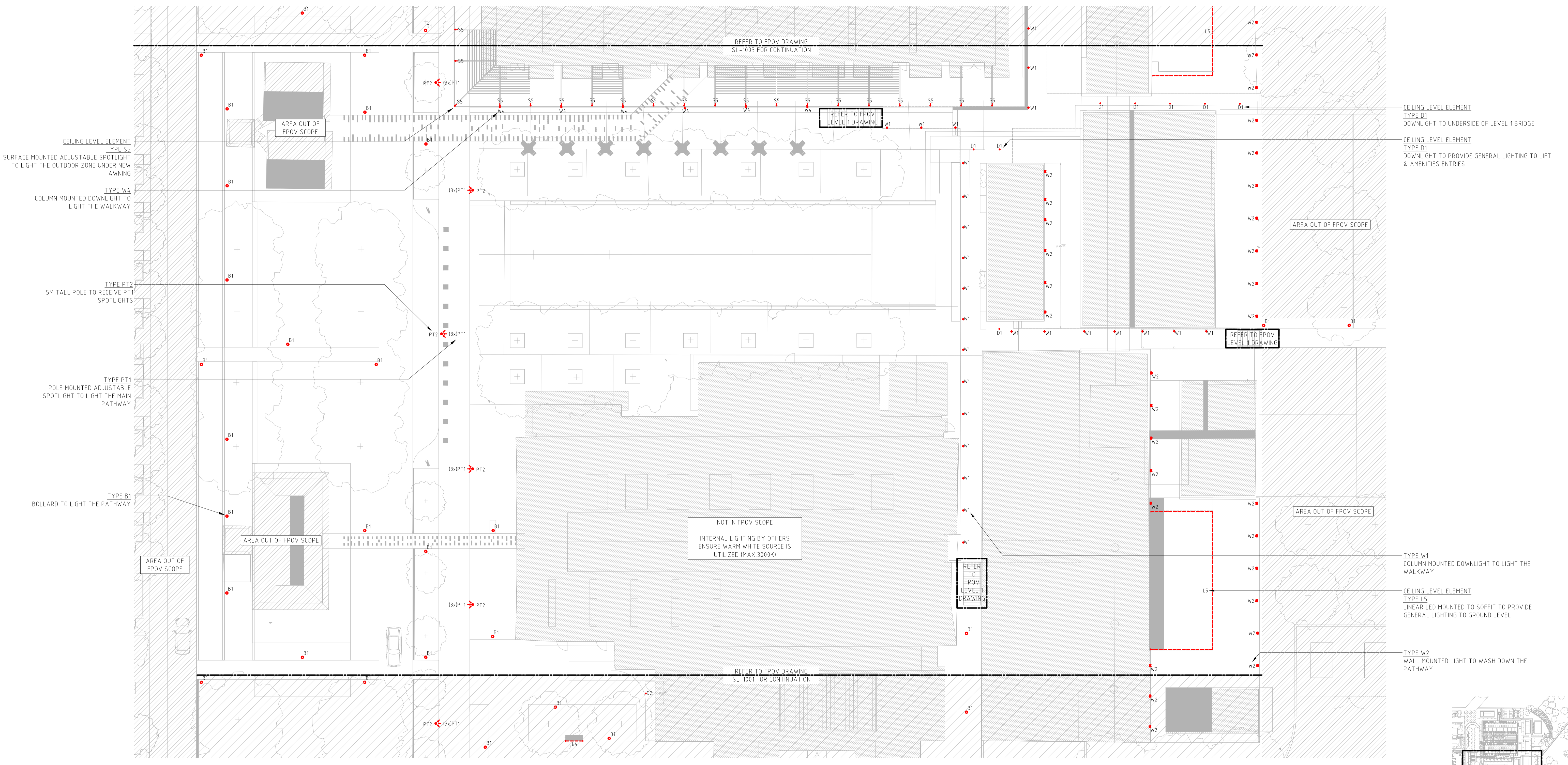
- THIS IS NOT A CONSTRUCTION DRAWING
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH FPOV SPECIFICATIONS AND SCHEDULES
- THIS DRAWING DOES NOT INCLUDE EMERGENCY LIGHT OR EXIT SIGNAGE INFORMATION
- COURTYARD SHOWN IS INDICATIVE OF CONTROL GROUPS AND SHALL BE READ IN CONJUNCTION WITH ELECTRICAL ENGINEERING DRAWINGS SHOWING ELECTRICAL CIRCUITING
- ALL REPORTS GEAR TO BE LOCATED AT DRY, ACCESSIBLE, VENTILATED LOCATION; CONTRACTOR TO NOMINATE GEAR LOCATIONS; FPOV TO REVIEW AND COMMENT
- ANNOTATED LINEAR LIGHT DIMENSIONS ARE ACCURATE IN RELATION TO ARCHITECTURAL DRAWING & CONSTRUCTED ACCURATE TO THIS DRAWING; DIMENSIONS CAN BE USED TO INFORM METAL ORDERING ONLY; FINAL ORDERS MUST BE MADE VIA MEASUREMENTS TAKEN FROM CONTRACTORS DRAWINGS
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- FOR CURVE APPLICATION LINEAR LED TO BE PROVIDED IN SHORTER MODULES AS NOTED IN THE DRAWING

FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
0619SYD_ACT_BRICKWORKS_LA_SK_Base_File_230719
ISSUED TO FPOV ON 20/07/2023

FPOV

LONDON	BATH	SYDNEY	MELBOURNE	GOLD COAST	PERTH	DUBAI	SINGAPORE	INDONESIA	HONG KONG
FIREFLY POINT OF VIEW									
YARRALUMLA BRICKWORKS HERITAGE CORE DOMA GROUP LIGHTING DESIGN GROUND FLOOR AREA 1 – LIGHTING PLAN									
SCALE: A1	PROJ. No.	DWG. No.	REV						
1:200	J3867	SL-1001	00						

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BOLLARD	-B	FLUORESCENT	-F	SPECIFICATION SUPPLIED BY OTHERS	-AS
CEILING MOUNTED DOWNLIGHT	-C	METAL WALKER	-M	EFFECT / GEAR PROTECTORS, ETC.	-FP
FLOOR LAMP	-D	LED DLS	-D	RE-USE EXISTING PRODUCTS	-R
HANDRAIL	-H	LIGHT EMITTING DIODE (LED)	-L	CHIMNEY	-CM
LINEAR	-L	TUNGSTEN HALOGEN	-H	LIGHTING CONTROL PANEL	-LCP
POLE MOUNTED ADJUSTABLE SPOTLIGHT	-PT1	NEON / COLD CATHODE	-N	LIGHTING / PROGRAMMABLE SOCKET	-LPS
5M TALL POLE TO RECEIVE SPOTLIGHTS	-PT2			DIMMED GPO	-DLS
INTegrated lighting to underside of fixed bench	-L4			DIMMER GEAR	-DG
				SWITCH	-SW
				GENERAL POWER OUTLET	-GPO
				SPECIAL POWER OUTLET	-SPO
				CLOCK POINT	-CP



1 GROUND FLOOR AREA 2 – LIGHTING PLAN
1002 1:200

NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BOLLARD	-B	FLUORESCENT	-F
CEILING MOUNTED DOWNLIGHT	-C	METAL WALKER	-M
FLOOR LAMP	-D	LED DLS	-D
HANDRAIL	-H	LIGHT EMITTING DOSE ELD	-L
LINEAR	-L	TUNGSTEN HALOGEN	-H
PHENDANT	-P	NEON / COLD CATHODE	-N
SPOT TRACK MOUNTED	-S		
TABLE LAMP	-T		
UPLIGHT	-U		
WALL LIGHT	-W		
CUSTOM FITTING	-Z		

SYMBOL	DESCRIPTION
PT2	5M TALL POLE TO RECEIVE PT1 SPOTLIGHTS
D1	POLE MOUNTED ADJUSTABLE SPOTLIGHT TO LIGHT THE MAIN PATHWAY
B1	BOLLARD TO LIGHT THE PATHWAY
W1	COLUMN MOUNTED DOWNLIGHT TO LIGHT THE WALKWAY
S5	SURFACE MOUNTED ADJUSTABLE SPOTLIGHT TO LIGHT THE OUTDOOR ZONE UNDER NEW AWNING
L5	LINEAR LED MOUNTED TO SOFFIT TO PROVIDE GENERAL LIGHTING TO GROUND LEVEL
W2	WALL MOUNTED LIGHT TO WASH DOWN THE PATHWAY

NOTES

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FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
0619SYD_ACT_BRICKWORKS_LA_SK_Base_File_230719
ISSUED TO FPOV ON 20/07/2023

ARCHITECT:
CONSULTANT:

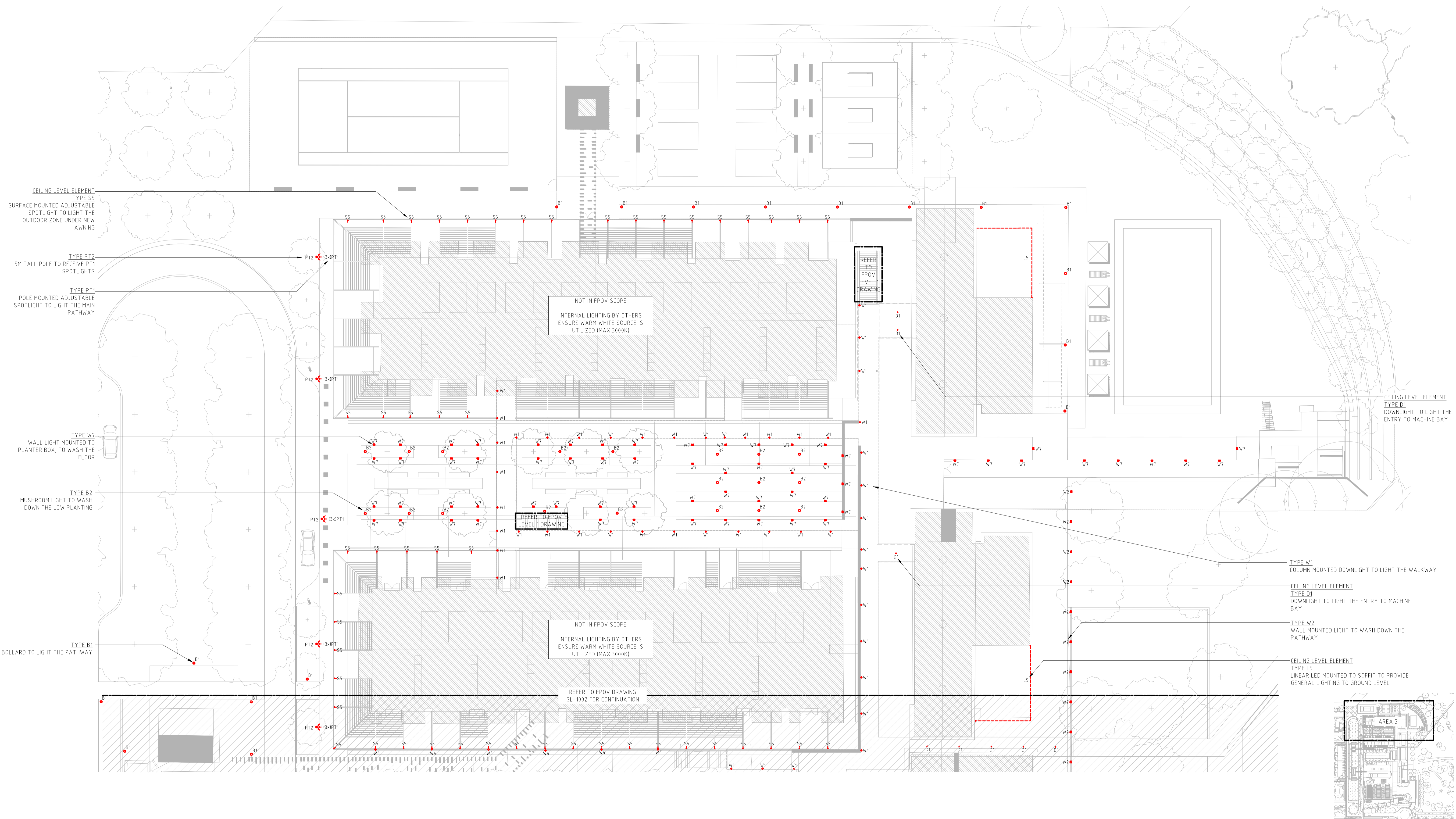
FPOV

LONDON
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DUBAI
SINGAPORE
INDONESIA
HONG KONG

FIREFLY POINT OF VIEW

YARRALUMLA BRICKWORKS HERITAGE CORE
DOMA GROUP
LIGHTING DESIGN
GROUND FLOOR AREA 2 – LIGHTING PLAN

SCALE: A1 PROJ. No. DWG. No. REV.
1:200 J3867 SL-1002 00



1 GROUND FLOOR AREA 3 – LIGHTING PLAN
1003 1:200

NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BOLLARD	-B	FLUORESCENT	-F
CEILING MOUNTED DOWNLIGHT	-C	METAL WALKER	-M
FLOOR LAMP	-D	LED DLS	-D
HANDRAIL	-H	LIGHT EMITTING DIODE (LED)	-L
LINEAR LIGHT	-L	TUNGSTEN HALOGEN	-H
POLE MOUNTED SPOTLIGHT	-P	NEON / COLD CATHODE	-N
TABLE LAMP	-T		
UPLIGHT	-U		
WALL LIGHT	-W		
CUSTOM FITTING	-X		

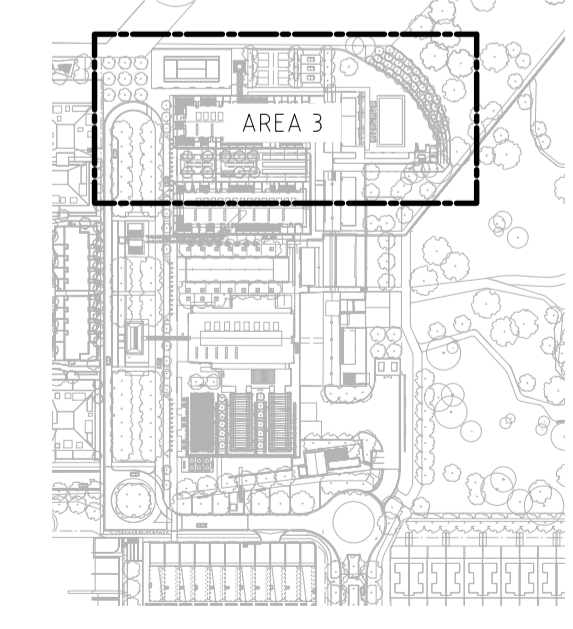
SYMBOL	DESCRIPTION
AS	Specification supplied by others
FE	Effect / GPO PROTECTORS, ETC.
FR	RE-USE EXISTING PRODUCTS
CP	CORNER
CP	LIGHTING CONTROL PANEL
CP	DIMMER
CP	LIGHTING / PROGRAMMABLE SOCKET
CP	DIMMED GPO
CP	DIMMER GEAR
CP	SWITCH
CP	GENERAL POWER OUTLET
CP	SPECIAL POWER OUTLET
CP	CLOCK POINT

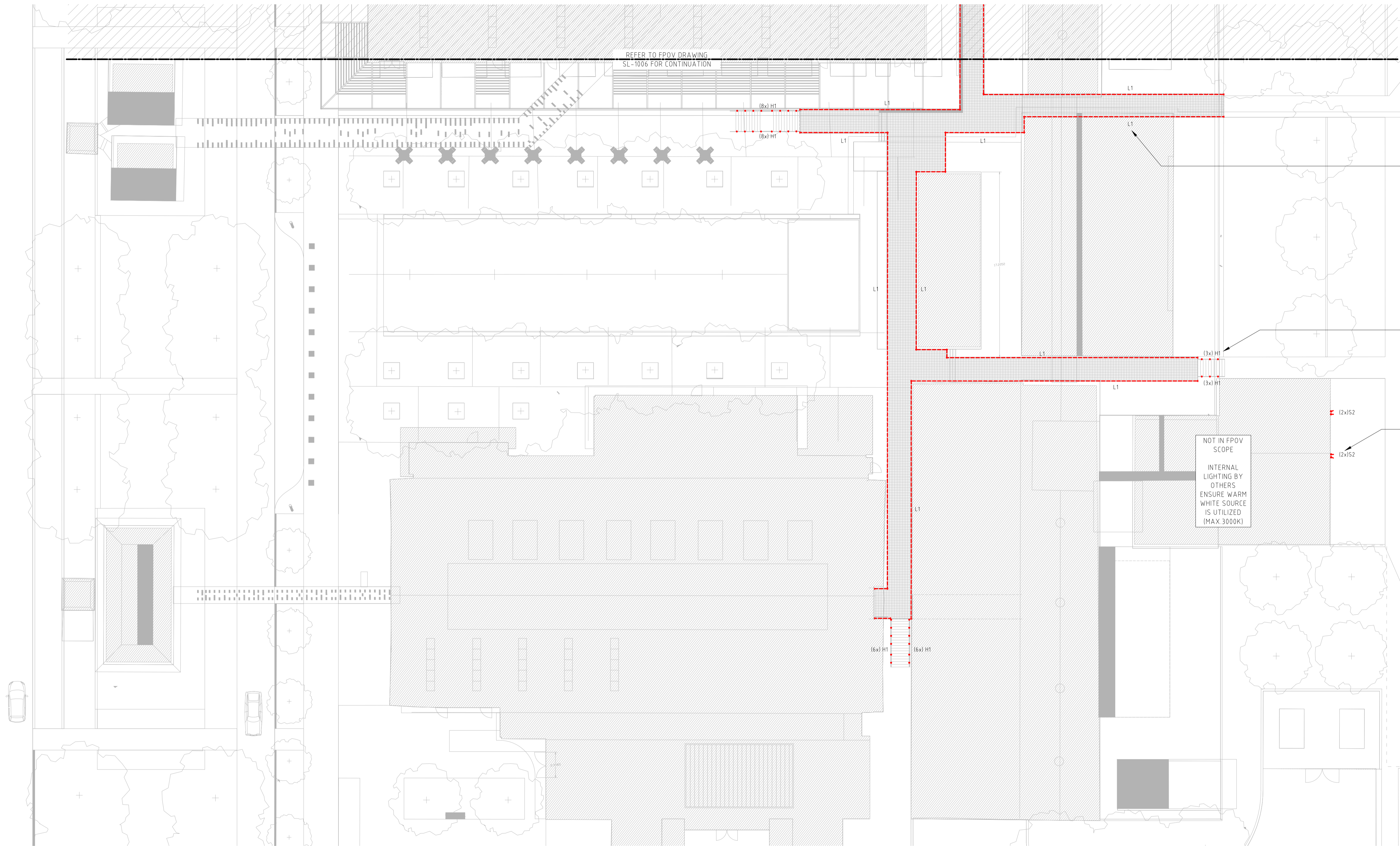
NOTES:
 1 THIS IS NOT A CONSTRUCTION DRAWING
 2 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH FPOV SPECIFICATIONS AND SCHEDULES
 3 THIS DRAWING DOES NOT INCLUDE EMERGENCY LIGHT OR EXIT SIGNAGE INFORMATION
 4 CREATING SHOWN IS INDICATIVE OF CONTROL GROUPS AND SHALL BE READ IN CONJUNCTION WITH ELECTRICAL ENGINEERING DRAWINGS SHOWING ELECTRICAL CIRCUITING
 5 ALL REPOSE GEAR TO BE LOCATED AT DRY, ACCESSIBLE, VENTILATED LOCATION; CONTRACTOR TO NOMINATE GEAR LOCATION; FPOV TO REVIEW AND COMMENT
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 6.1 FOR STRAIGHT APPLICATION LONGEST AVAILABLE MODULES TO BE USED, COMPLETED BY SHORTER MODULE AS REQUIRED
 6.2 FOR CURVE APPLICATION LINEAR LED TO BE PROVIDED IN SHORTER MODULES AS NOTED IN THE DRAWING

FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
 0619SYD_ACT_BRICKWORKS_LA_SK_Base_File_230719
 ISSUED TO FPOV ON 20/07/2023

ARCHITECT:
 CONSULTANT:
FPOV

LONDON	BATH	SYDNEY	MELBOURNE	GOLD COAST	PERTH	DUBAI	SINGAPORE	INDONESIA	HONG KONG
FIREFLY POINT OF VIEW YARRALUMULA BRICKWORKS HERITAGE CORE DOMA GROUP LIGHTING DESIGN GROUND FLOOR AREA 3 – LIGHTING PLAN SCALE: A1 PROJ. No. DWG. No. REV. 1:200 J3867 SL-1003 00									



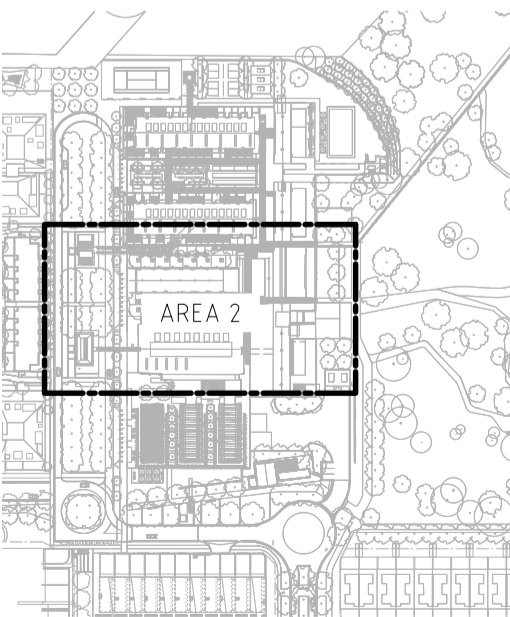


TYPE L1
LINEAR LED IN FLOOR TROUGH DETAIL, TO WASH UP THE BALUSTRADE & PROVIDE INDIRECT LIGHTING TO LEVEL 1 WALKWAY

TYPE H1
HANDRAIL INTEGRATED LED PODS TO LIGHT THE STAIRS

CEILING LEVEL ELEMENT TYPE S2
SURFACE MOUNTED ADJUSTABLE SPOTLIGHT AT TOP OF FACE OF FACADE, TO PROVIDE AREA LIGHTING

NOT IN FPOV SCOPE
INTERNAL LIGHTING BY OTHERS
ENSURE WARM WHITE SOURCE IS UTILIZED (MAX 3000K)



NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

1 LEVEL 1 AREA 2 - LIGHTING PLAN
1005 1:200

REV	DATE	DESCRIPTION	TN	FL	DRAWN	CHECKED
00	25-07-23	DA REPORT				

APPLICATION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BOLLARD	-B	FLUORESCENT	-F	Specification supplied by others FF&E
CEILING MOUNTED DOWNLIGHT	-C	METAL WALKER	-M	EFFECT / GOOD PRODUCTIONS, ETC.
FLOOR LAMP	-D	LED DLS	-R	RE-USE EXISTING PRODUCTS
HANDRAIL	-H	LIGHT EMITTING DIODE (LED)	-L	DIMMER
LINEAR	-L	TUNGSTEN HALOGEN	-H	LIGHTING CONTROL PANEL
PENDANT	-P	NEON / COLD CATHODE	-N	LIGHTING / PROGRAMMABLE SOCKET
SPOT / TRACK MOUNTED	-S			DIMMED GFCI
TABLE LAMP	-T			SWITCH
TRACK	-TR			GENERAL POWER OUTLET
UPLIGHT	-U			SPECIAL POWER OUTLET
CUSTOM FITTING	-W			CLOCK POINT

NOTES

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FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
0619SYD_ACT_BRICKWORKS_LA_SK_Base_File_230719
ISSUED TO FPOV ON 20/07/2023

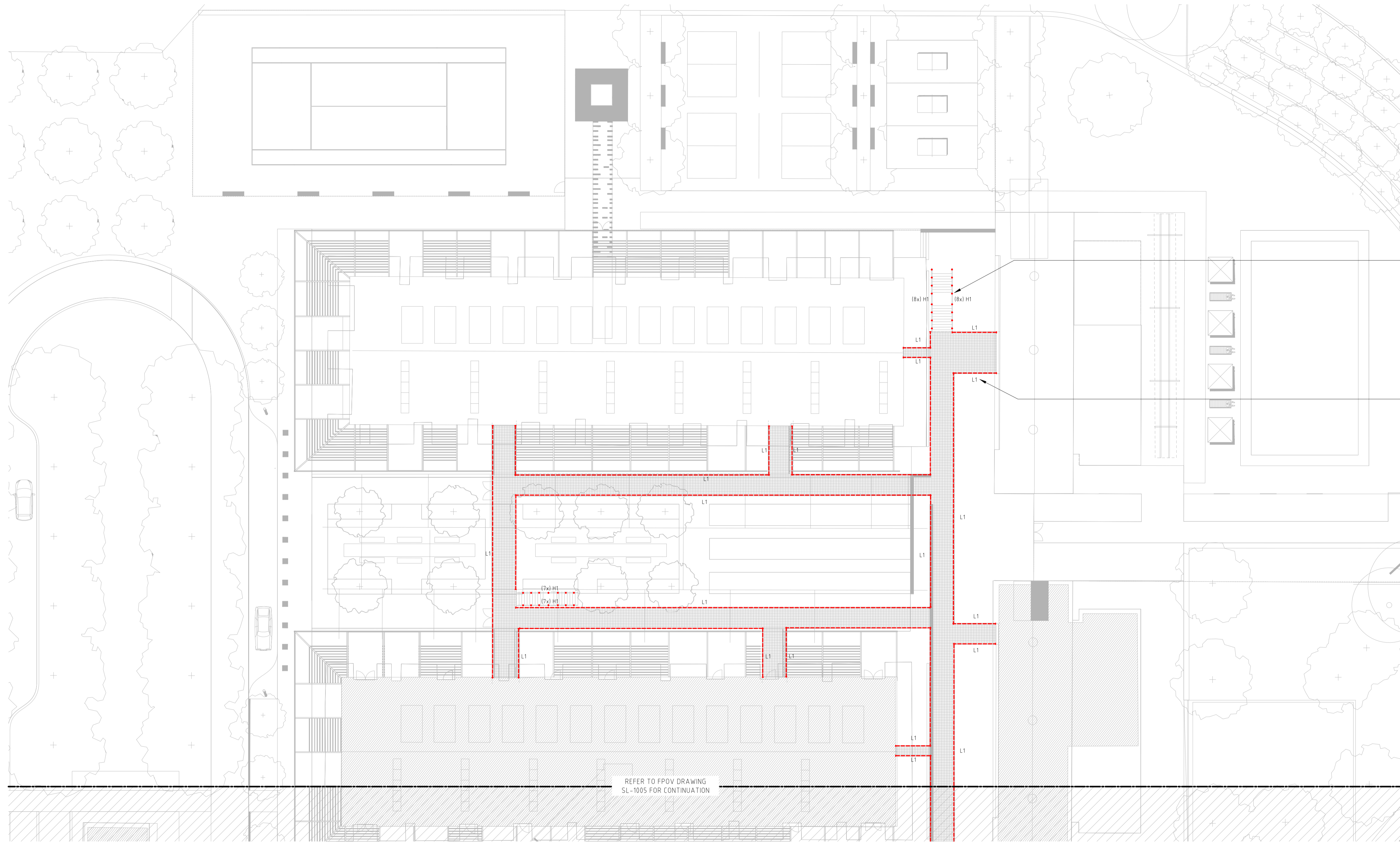
ARCHITECT:
CONSULTANT:

FPOV

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SINGAPORE
INDONESIA
HONG KONG

FIREFLY POINT OF VIEW

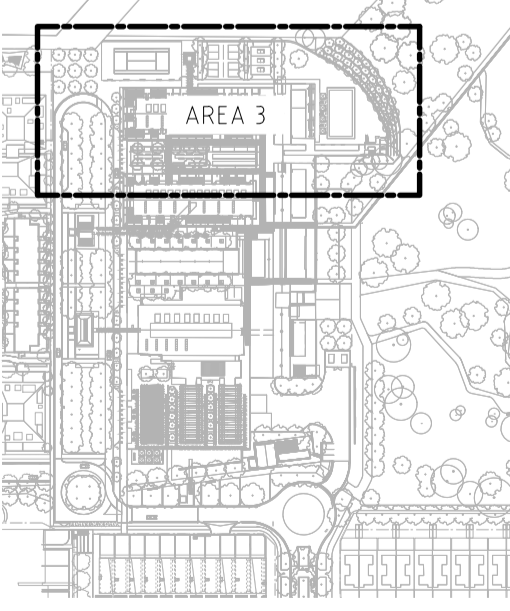
YARRALUMLA BRICKWORKS HERITAGE CORE
DMA GROUP
LIGHTING DESIGN
LEVEL 1 AREA 2 - LIGHTING PLAN
SCALE: A1 PROJ. No. DWG No. REV
1:200 J3867 SL-1005 00



TYPE H1
HANDRAIL INTEGRATED LED PODS TO LIGHT THE STAIRS

TYPE L1
LINEAR LED IN FLOOR TROUGH DETAIL, TO WASH UP
THE BALUSTRADE & PROVIDE INDIRECT LIGHTING TO
LEVEL 1 WALKWAY

REFER TO FPOV DRAWING
SL-1005 FOR CONTINUATION



NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

1 LEVEL 1 AREA 3 – LIGHTING PLAN
1006 1:200

REV	DATE	DESCRIPTION	TN	FL	DRAWN	CHECKED
00	25-07-23	DA REPORT				

APPLICATION	SYMBOL	DESCRIPTION
BOLLARD	-B	FLUORESCENT
CILING MOUNTED DOWN LIGHT	-C	METAL WALKER
FLOOD LAMP	-D	LED DLS
HANDRAIL	-H	RE-USE EXISTING PRODUCTS, ETC.
SPINE LIGHT	-K	DIMMER
LINEAR	-L	LIGHTING CONTROL PANEL
PENDANT	-P	LIGHTING / PROGRAMMABLE SOCKET
POLE TOP	-PT	DIMMED GFCI
SPOT / TRACK MOUNTED	-S	SWITCH
TABLE LAMP	-T	GENERAL POWER OUTLET
TRACK	-TR	SPECIAL POWER OUTLET
UPLIGHT	-U	CLOCK POINT
WALL LIGHT	-W	
CUSTOM FITTING	-X	

OTHER	SYMBOL	DESCRIPTION
Specification supplied by others FF&E	-AS	
EFFECT / GROUND PROJECTIONS, ETC.	-E	
RE-USE EXISTING PRODUCTS, ETC.	-R	
DIMMER	-DM	
LIGHTING CONTROL PANEL	-LCP	
LIGHTING / PROGRAMMABLE SOCKET	-LPS	
DIMMED GFCI	-DLS	
SWITCH	-SW	
GENERAL POWER OUTLET	-GPO	
SPECIAL POWER OUTLET	-SPO	
CLOCK POINT	-CP	

NOTES

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FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
0619SYD_ACT_BRICKWORKS_LA_SK_Base_File_230719
ISSUED TO FPOV ON 20/07/2023

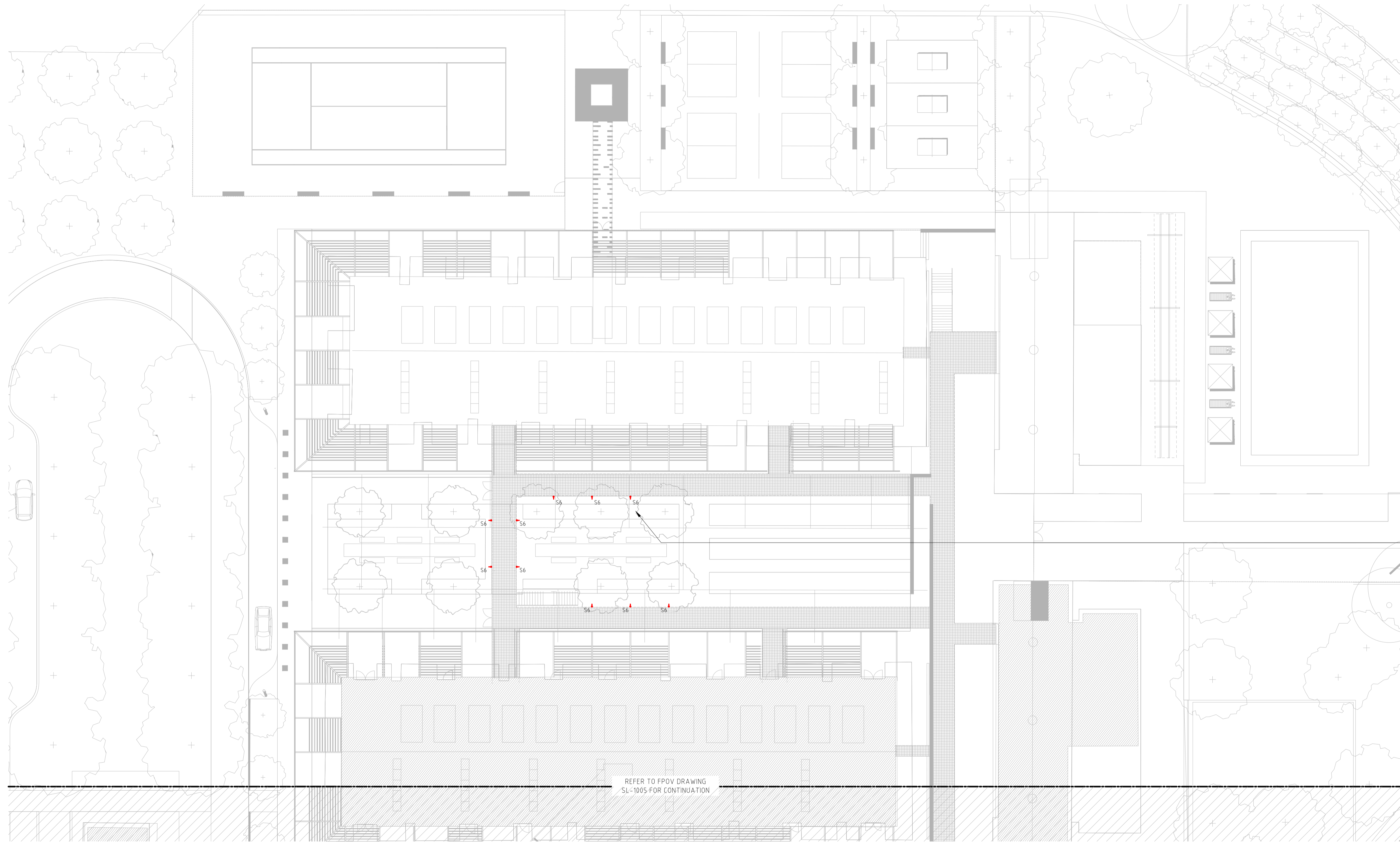
ARCHITECT:
CONSULTANT:

FPOV

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MELBOURNE
GOLD COAST
PERTH
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SINGAPORE
INDONESIA
HONG KONG

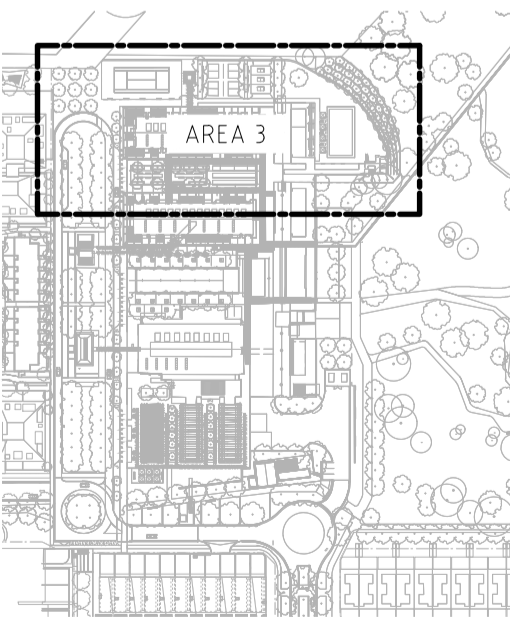
FIREFLY POINT OF VIEW

YARRALUMLA BRICKWORKS HERITAGE CORE
DOMA GROUP
LIGHTING DESIGN
LEVEL 1 AREA 3 – LIGHTING PLAN
SCALE: A1 PROJ. No. DWG. No. REV.
1:200 J3867 SL-1006 00



TYPE S6
ADJUSTABLE SPOTLIGHT MOUNTED TO WALKWAY
STRUCTURE, TO LIGHT THE TREES AND CREATE
DAPPLED LIGHT ON THE GROUND

REFER TO FPOV DRAWING
SL-1005 FOR CONTINUATION



NOTE: THIS DRAWING ONLY SHOWS LIGHTING REQUIRED FOR PUBLIC REALM COMPLIANCE

1 ROOF AREA 3 – LIGHTING PLAN
1009 1:200

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-B	BOLLARD	-F	FLUORESCENT
-C	CEILING MOUNTED DOWN LIGHT	-H	METAL WALKER
-D	FLOOD LAMP	-O	LED DLS
-E	HANDRAIL	-P	LED STRIP LIGHT (DISE ELD)
-G	SPINE LIGHT	-M	TUNGSTEN HALOGEN
-H	LINEAR	-N	NEON / COLD CATHODE
-I	FREE SPOTLIGHT		
-J	PENDANT		
-K	TABLE TOP		
-L	SPOT / TRACK MOUNTED		
-M	TRACK		
-N	UPLIGHT		
-O	WALL LIGHT		
-P	CUSTOM FITTING		

SYMBOL	DESCRIPTION
-AS	Specification supplied by others FF&E
-BS	EFFECT / GROUND PROJECTIONS, ETC.
-CS	RE-USE EXISTING PRODUCTS
-DS	DIMMER
-ES	LIGHTING CONTROL PANEL
-FS	LIGHTING / PROGRAMMABLE SOCKET
-GS	DIMMED GFCI
-HS	SWITCH
-IS	GENERAL POWER OUTLET
-JS	SPECIAL POWER OUTLET
-KS	CLOCK POINT

NOTES

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FPOV DRAWINGS BASED ON MCGREGOR COXALL DRAWING:
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ARCHITECT:
CONSULTANT:

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SINGAPORE
INDONESIA
HONG KONG

FIREFLY POINT OF VIEW

YARRALUMLA BRICKWORKS HERITAGE CORE
DMA GROUP
LIGHTING DESIGN
ROOF AREA 3 – LIGHTING PLAN
SCALE: A1
PROJ. No. J3867
DWG. No. SL-1009
REV 00



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LIGHTING + AV DESIGN

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info@f-pov.com

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