

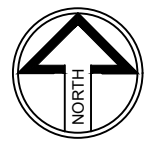
WCPA BRADFIELD CITY CENTRE

DISCIPLINE: ELECTRICAL SERVICES



DRAWING LIST	
E000	COVER SHEET AND DRAWING LIST
E001	LEGEND OF SYMBOLS AND GENERAL NOTES
E002	SITE PLAN
E003	DETAIL SHEET
E100	EXTERNAL LIGHTING PLAN SHEET 1
E101	EXTERNAL LIGHTING PLAN SHEET 2
E102	EXTERNAL LIGHTING PLAN SHEET 3
E103	EXTERNAL LIGHTING PLAN SHEET 4
E104	EXTERNAL LIGHTING PLAN SHEET 5
E105	EXTERNAL LIGHTING PLAN SHEET 6
E106	EXTERNAL LIGHTING PLAN SHEET 7
E107	EXTERNAL LIGHTING PLAN SHEET 8
E108	EXTERNAL LIGHTING PLAN SHEET 9
E109	EXTERNAL LIGHTING PLAN SHEET 10
E110	EXTERNAL LIGHTING PLAN SHEET 11
E111	EXTERNAL LIGHTING PLAN SHEET 12
E112	EXTERNAL LIGHTING PLAN SHEET 13

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.				
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE

ELECTRICAL SERVICES
COVER SHEET
AND DRAWING LIST

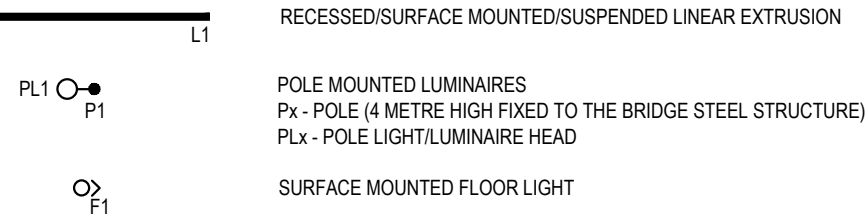
PRELIMINARY ISSUE
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DRAWN	R.B.	SCALE @ A1 N.T.S.
CHECKED	S.A.	
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

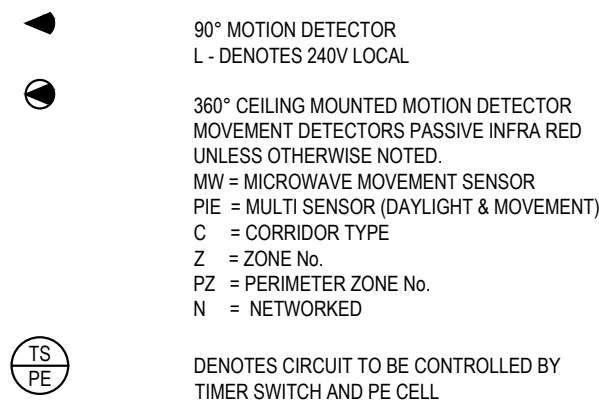
DRAWING NO.
E000

REV
P2

LUMINAIRE SYMBOLS



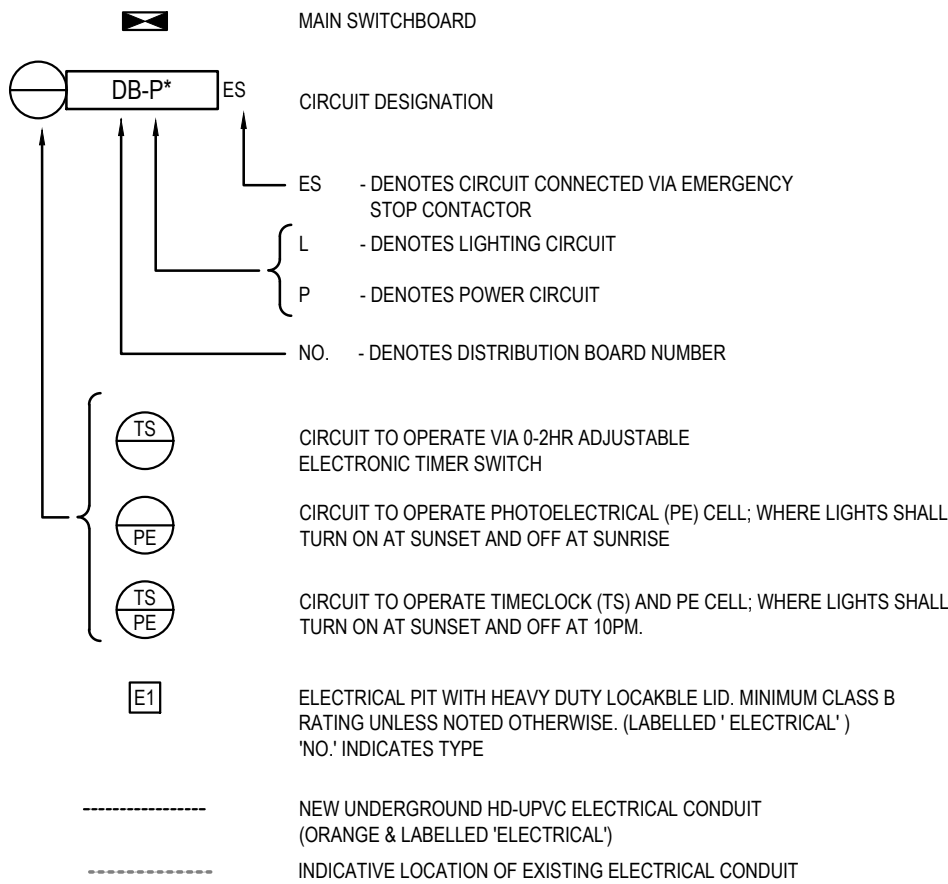
SWITCHING & CONTROLS



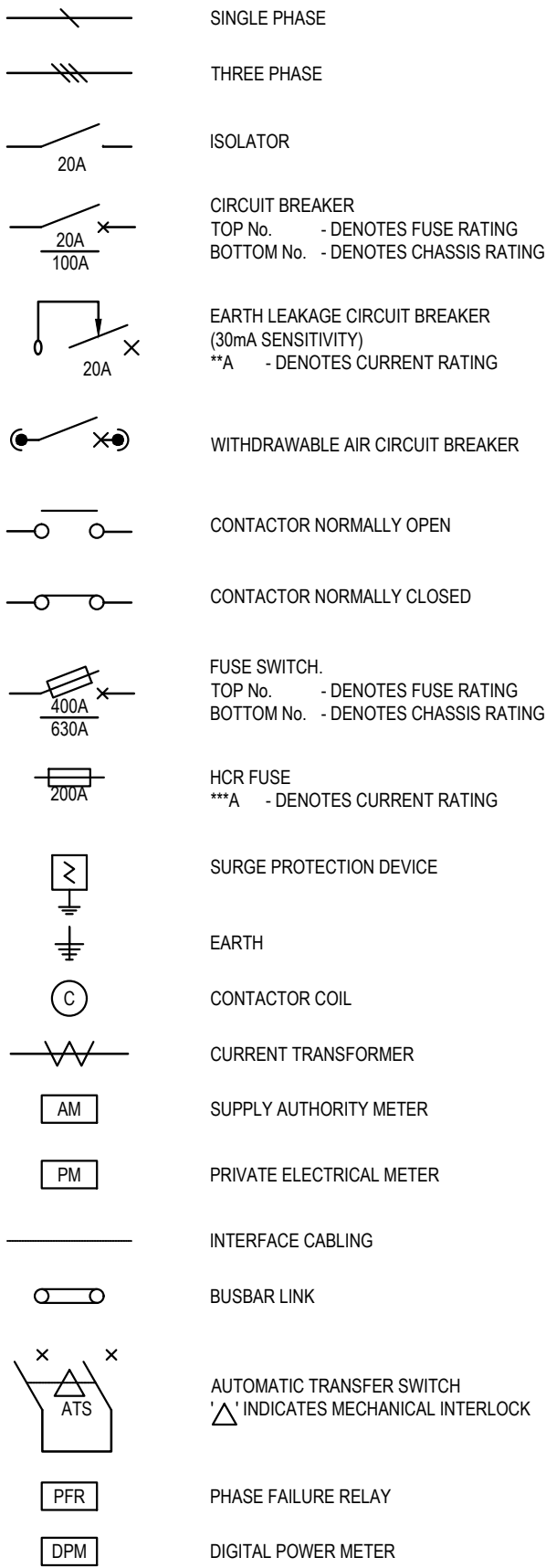
LIGHTING NOTES

UNLESS OTHERWISE NOTED
- LIGHT FITTINGS SHALL BE SUPPLIED WITH ALL ASSOCIATED BRACKETS
AND MOUNTING GEAR TO INSTALL AS PER THE ARCHITECTURAL RCP
- ALL CONTROL GEAR TO BE MIN. 'A2' TYPE SPECIFICATION ELECTRONIC
WITH NO MORE THAN 0.5mA EARTH LEAKAGE.

POWER



SINGLE LINE DIAGRAM



GENERAL NOTES

- GENERAL
- ALL WORK TO BE IN ACCORDANCE WITH THE NSW WIRING RULES, AS 3000 AND THE RELEVANT CLIENT SPECIFICATIONS.
 - MARK ALL EQUIPMENT INCLUDING SWITCHES, POWER OUTLETS, ETC., WITH DISTRIBUTION BOARD NUMBER/CIRCUIT NUMBER AND DESTINATION AREAS.
 - PLACE ALL CONTROLS WITHIN DISTRIBUTION BOARD, UNLESS NOTED OTHERWISE.
 - THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ELECTRICAL SERVICES SPECIFICATION.
 - THE CONTRACTOR MUST READ, ADHERE TO & ALLOW IN THE TENDER PRICE FOR ALL WORKS AND EQUIPMENT DETAILED IN THE RELEVANT DRAWINGS, SPECIFICATIONS, ALLOW TO ASSESS SITE AND ALLOW FOR ALL WORKS AS NECESSARY. PRIOR TO TENDERING & CARRYING OUT ANY WORK, VARIATIONS AS A RESULT OF NOT DOING SO WILL NOT BE ACCEPTED.
 - ALL WIRING / CONDUITS SHALL BE CONCEALED. NO EXPOSED CONDUIT / CABLING WILL BE PERMITTED WITHOUT WRITTEN CONSENT.

LIGHTING

- PROVIDE 30mA RCD PROTECTION TO ALL LIGHTING & POWER CIRCUITS AS PER AS3000. ALL RCD'S SHALL BE HIGH IMMUNITY RCD'S WITH HIGH FREQUENCY FILTERS, WITH SPECIFICATION SIMILAR TO THAT ABB AP-R SERIES.
- COLOUR OF ALL LIGHT FITTINGS, TRIMS, LENSES TO BE APPROVED BY THE ARCHITECT.
- ALL LIGHT FITTINGS SUPPLIED WITH, LAMPS, ELECTRONIC BALLASTS.
- REFER TO THE LIGHTING SCHEDULE FOR COLOUR TEMPERATURE OF ALL LAMPS. IN THE ABSENCE OF SUCH INFORMATION, FOR TENDER PURPOSES ALLOW FOR 4000K.

EARTHING

- INSTALL EQUIPOTENTIAL BONDING TO METALLIC PIPING, CABLE TRAYS, METAL DUCTS, COMMUNICATIONS EARTHING SYSTEMS AND OTHER METALLIC SYSTEMS.

ABBREVIATIONS

1N	- DENOTES 1 PHASE + NEUTRAL	S	- DENOTES SURFACE MOUNTED
3N	- DENOTES 3 PHASE + NEUTRAL	V	- DENOTES VANDAL RESISTANT HOUSING
2W	- DENOTES 2 WAY	WP	- DENOTES IP56 RATED (WEATHER PROOF)
DP	- DENOTES DOUBLE POLE	IP56	- DENOTES IP56 RATED.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE
**ELECTRICAL SERVICES
LEGEND OF SYMBOLS
AND GENERAL NOTES**

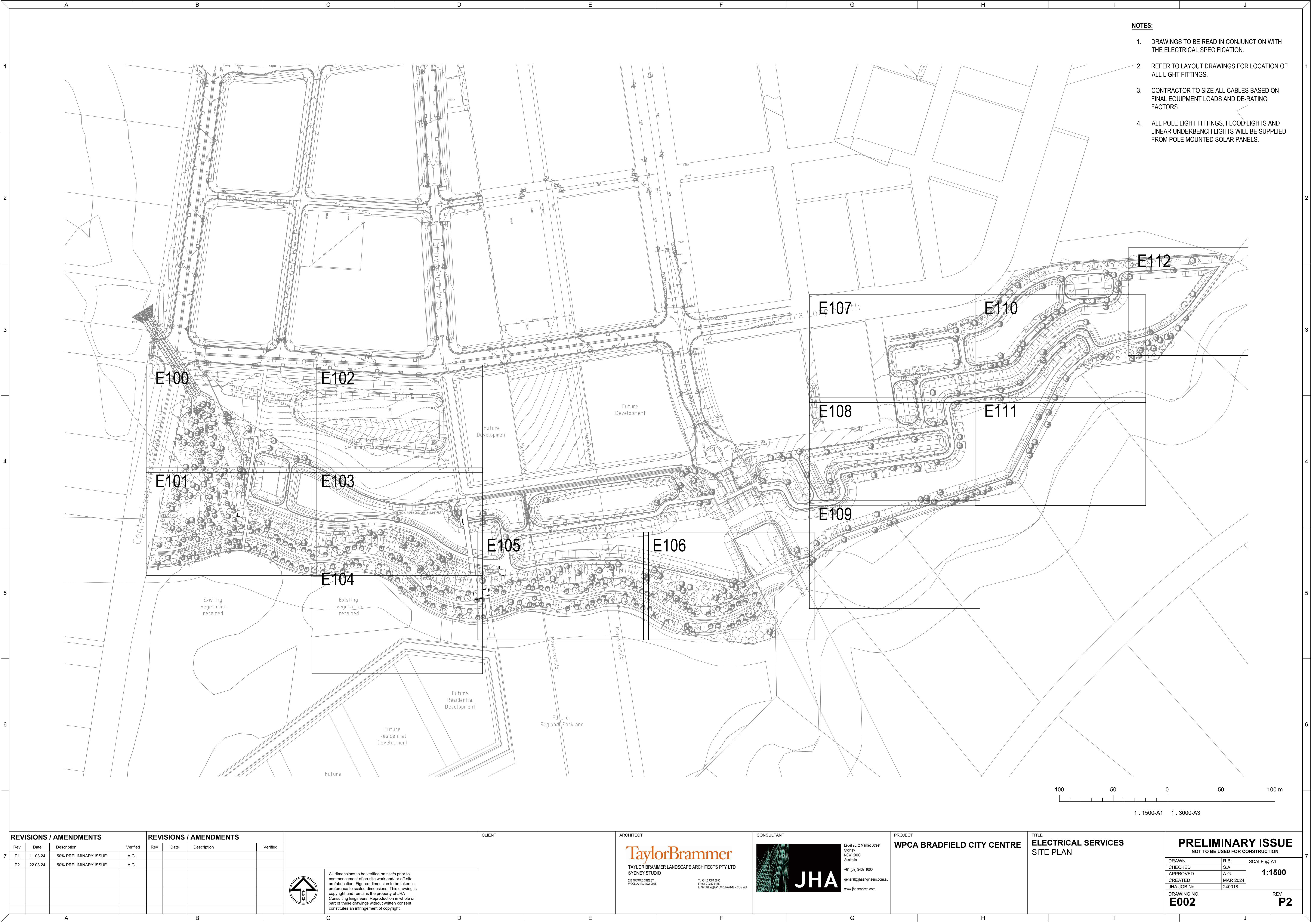
PRELIMINARY ISSUE

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DRAWN	R.B.	SCALE @ A1
CHECKED	S.A.	N.T.S.
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

DRAWING NO.
E001

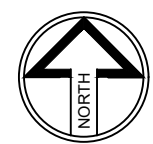
REV
P2



- NOTES:**
- DRAWINGS TO BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATION.
 - REFER TO LAYOUT DRAWINGS FOR LOCATION OF ALL LIGHT FITTINGS.
 - CONTRACTOR TO SIZE ALL CABLES BASED ON FINAL EQUIPMENT LOADS AND DE-RATING FACTORS.
 - ALL POLE LIGHT FITTINGS, FLOOD LIGHTS AND LINEAR UNDERBENCH LIGHTS WILL BE SUPPLIED FROM POLE MOUNTED SOLAR PANELS.



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.				
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE

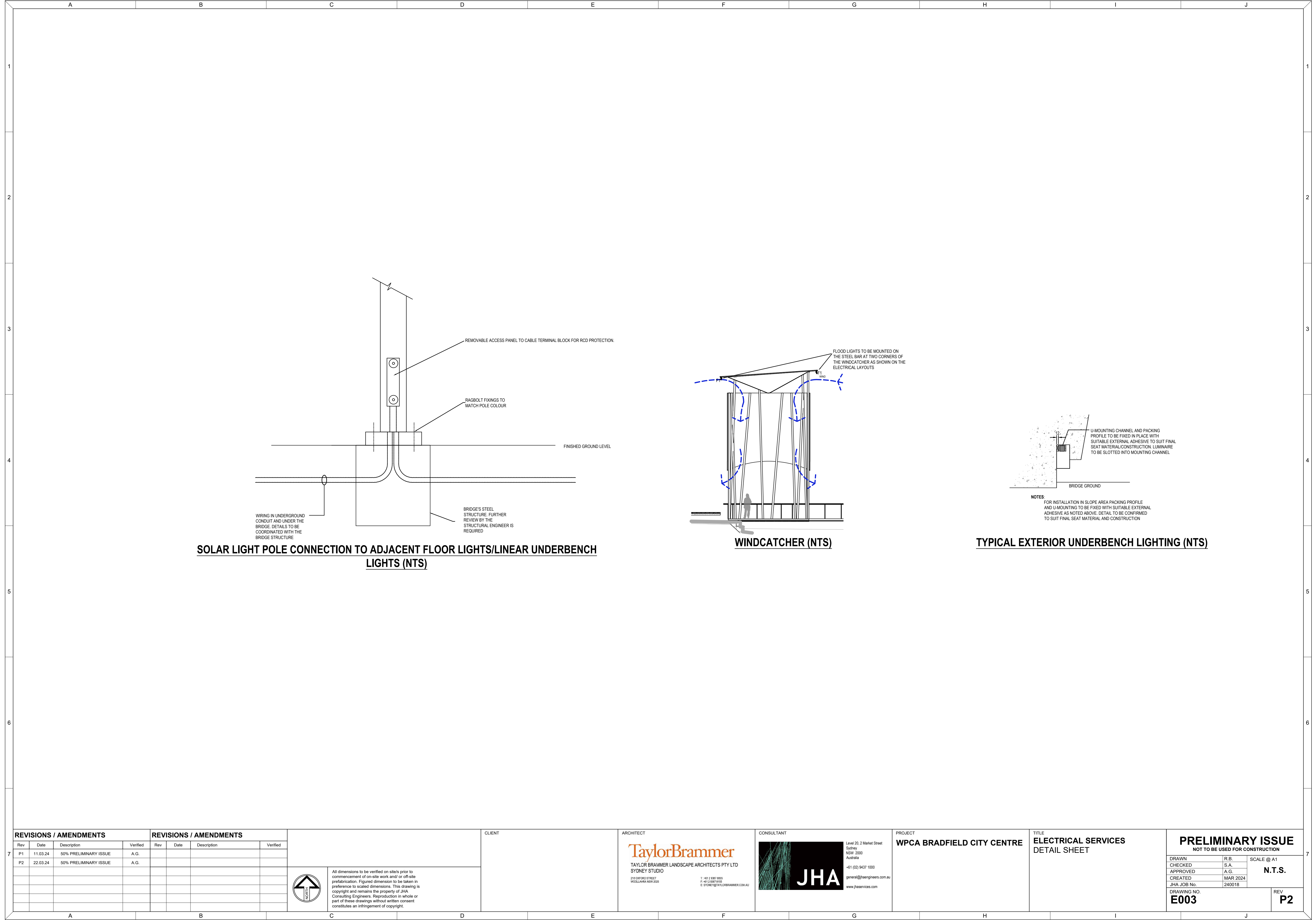
**ELECTRICAL SERVICES
SITE PLAN**

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	R.B.	SCALE @ A1
CHECKED	S.A.	1:1500
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

DRAWING NO.
E002

REV
P2



FOR CONTINUATION REFER TO E100

- NOTES:
- DRAWINGS TO BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATION.
 - REFER TO THE LUMINAIRE SCHEDULE FOR THE TYPES OF LIGHT FITTINGS AND POLES.
 - CONTRACTOR TO SIZE ALL CABLES BASED ON FINAL EQUIPMENT LOADS AND DE-RATING FACTORS.
 - ALL POLE LIGHT FITTINGS, FLOOD LIGHTS AND LINEAR UNDERBENCH LIGHTS WILL BE SUPPLIED FROM POLE MOUNTED SOLAR PANELS.

FOR CONTINUATION REFER TO E103

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.				
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE

ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 2

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	R.B.
CHECKED	S.A.
APPROVED	A.G.
CREATED	MAR 2024
JHA JOB No.	240018

SCALE @ A1
1:200

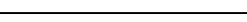
DRAWING NO.
E101

REV
P2

This site plan illustrates the proposed layout for the Moore Gully Swimming Pool area. The pool is depicted as a large, irregularly shaped body of water with a grid of depth markers ranging from 67.0 to 74.8 meters. The pool is bordered by a 1% slope. To the north of the pool, there is a road labeled 'R-185' with a width of 10.9 meters. To the east, a road labeled 'R-1500' is shown. The plan also includes several structures, including a building labeled 'T3-1' and a structure labeled 'T3-2'. A scale bar at the bottom right indicates a distance of 10 meters. The plan is oriented with North at the top.

FOR CONTINUATION REFER TO E100

FOR CONTINUATION REFER TO E103

REVISONS / AMENDMENTS				REVISONS / AMENDMENTS				CLIENT		ARCHITECT		CONSULTANT		PROJECT		TITLE		PRELIMINARY ISSUE					
Rev	Date	Description	Verified	Rev	Date	Description	Verified	 All dimensions to be verified on site/s prior to commencement of on-site work and/or off-site prefabrication. Figured dimension to be taken in preference to scaled dimensions. This drawing is copyright and remains the property of JHA Consulting Engineers. Reproduction in whole or part of these drawings without written consent constitutes an infringement of copyright.	 TAYLOR BRAMMER LANDSCAPE ARCHITECTS PTY LTD SYDNEY STUDIO 218 DORSARD STREET WOLLAHAM NSW 2555 T +61 2 9871 8855 F +61 2 9871 8155 E SYDNEY@TAYLORBRAMMER.COM.AU		 Level 20, 2 Market Street Sydney NSW 2000 Australia +61 (02) 9437 1000 general@jhaservices.com.au www.jhaservices.com		WPCA BRADFIELD CITY CENTRE		ELECTRICAL SERVICES EXTERNAL LIGHTING PLAN SHEET 3		NOT TO BE USED FOR CONSTRUCTION DRAWN _____ R.B. SCALE @ A1 CHECKED _____ S.A. APPROVED _____ A.G. 1:200 CREATED _____ MAR 2024 JHA JOB No. 240018 DRAWING NO. E102 REV P2						
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.																				
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.																				
A				B				C		D		E		F		G		H		I		J	

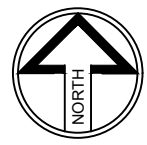
FOR CONTINUATION REFER TO

FOR CONTINUATION REFER TO E101

WETLAND A. REFER DRG. C1901 FOR DETAILS

FOR CONTINUATION REFER TO E104

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	11.03.24	50% PRELIMINARY ISSUE	A.G.				
P2	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT
WPCA BRADFIELD CITY CENTRE

TITLE
**ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 4**

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION
DRAWN _____ R.B.
CHECKED _____ S.A.
APPROVED _____ A.G.
CREATED _____ MAR 2024
JHA JOB No. 240018
DRAWING NO. **E103**
SCALE @ A1
1:200
REV **P2**

FOR CONTINUATION REFER TO E103

Existing
vegetation
retained

FOR CONTINUATION REFER TO E105

[illegible]

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PROJECT

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TITLE

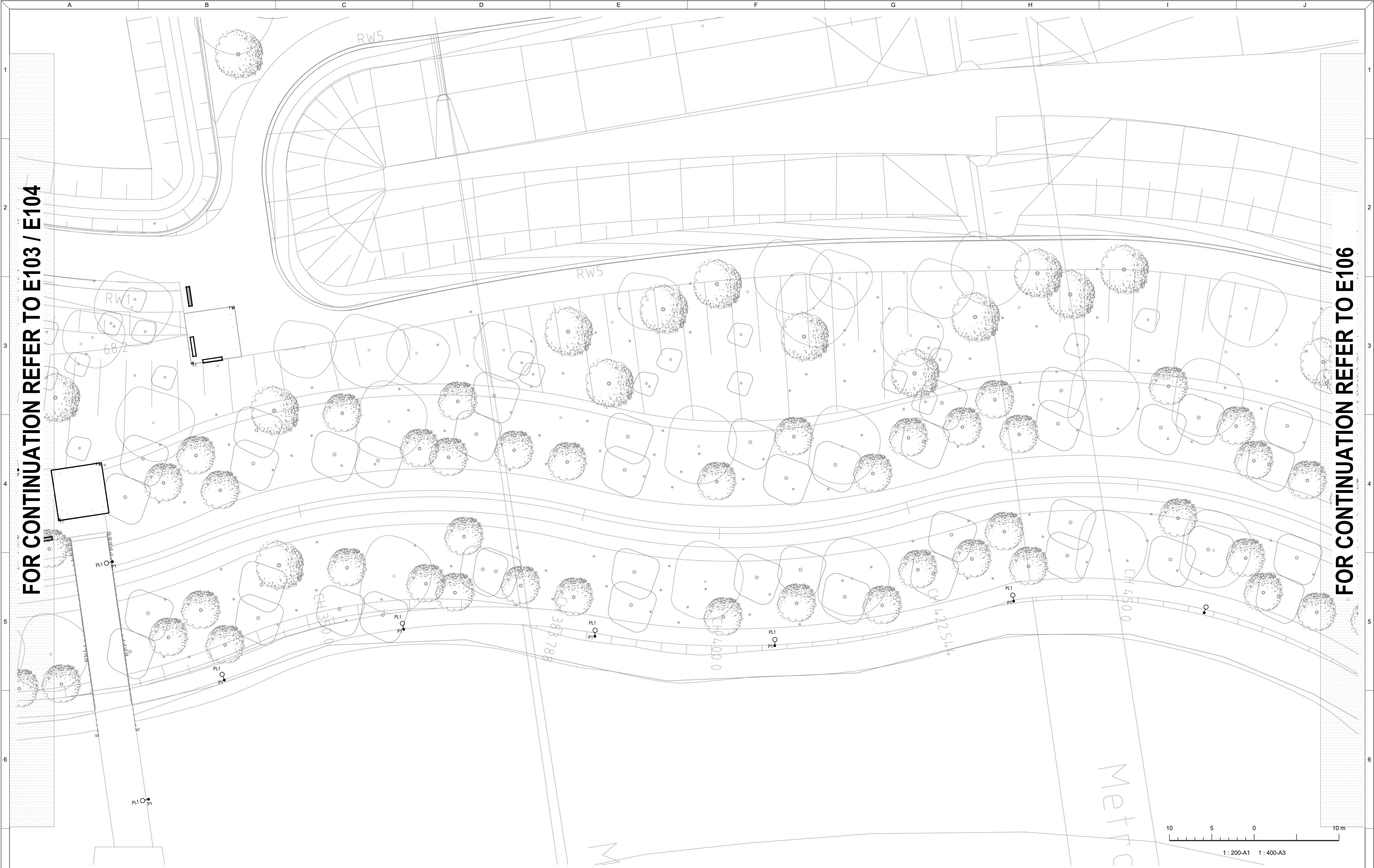
ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 5

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	R.B.	SCALE @ A1 1:200
CHECKED	S.A.	
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

DRAWING NO.
E104

EV
P1



FOR CONTINUATION REFER TO E103 / E104

FOR CONTINUATION REFER TO E106

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT
WPCA BRADFIELD CITY CENTRE

TITLE
**ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 6**

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	R.B.	SCALE @ A1
CHECKED	S.A.	1:200
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

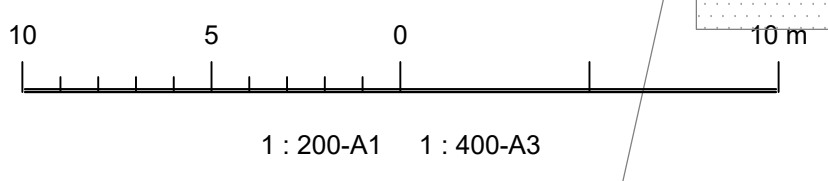
DRAWING NO.
E105

REV
P1

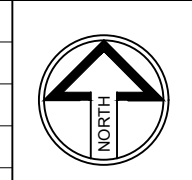


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FOR CONTINUATION REFER TO E109



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
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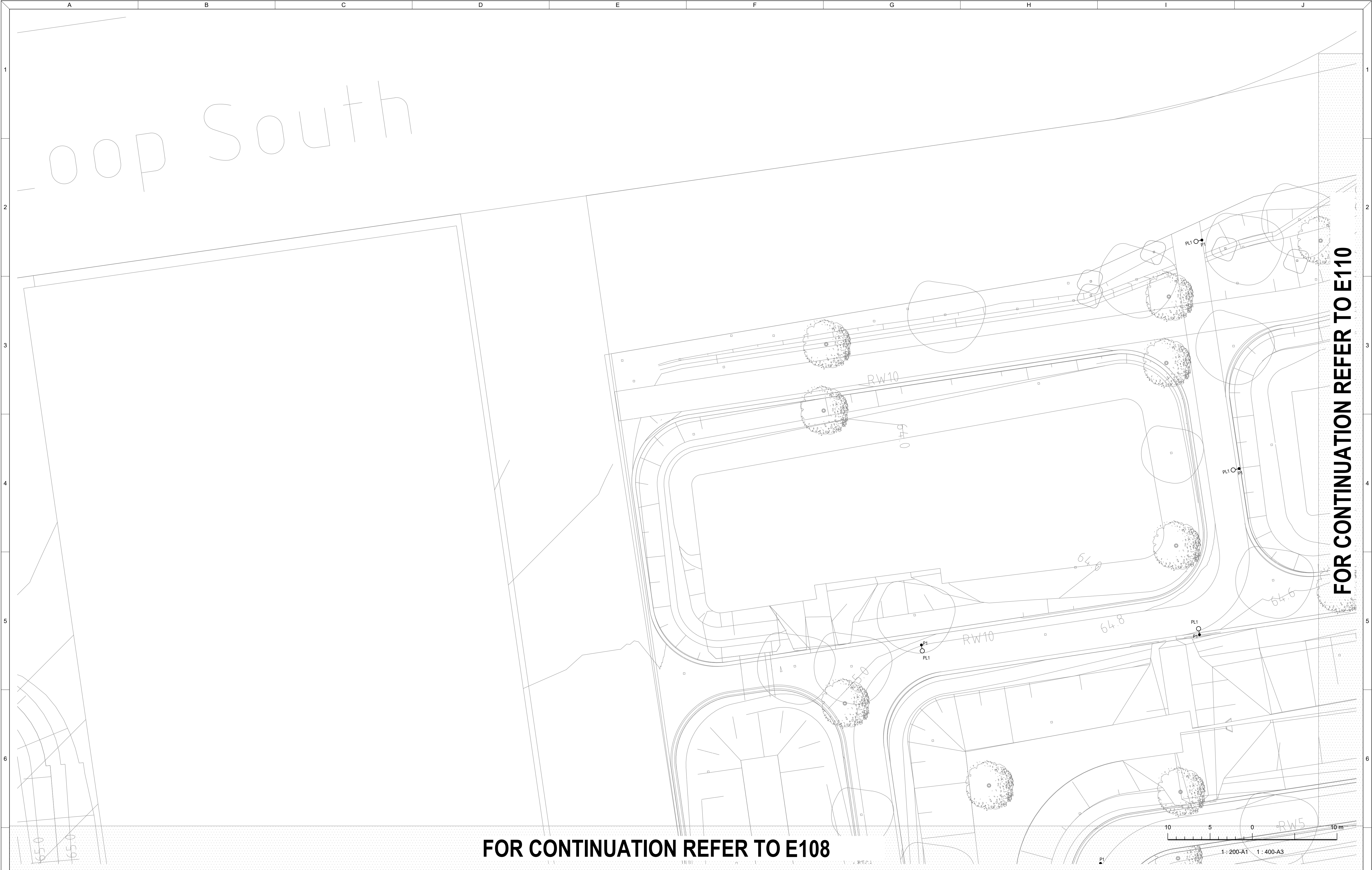
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PROJECT
WPCA BRADFIELD CITY CENTRE

TITLE
**ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 7**

PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION			
DRAWN	R.B.	SCALE @ A1	
CHECKED	S.A.	1:200	
APPROVED	A.G.		
CREATED	MAR 2024		
JHA JOB No.	240018		
DRAWING NO. E106			REV P1



FOR CONTINUATION REFER TO E108

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT
WPCA BRADFIELD CITY CENTRE

TITLE
ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN
CHECKED
APPROVED
CREATED

R.B.
S.A.
A.G.
MAR 2024

SCALE @ A1
1:200

DRAWING NO.
E107

REV
P1

FOR CONTINUATION REFER TO E107

FOR CONTINUATION REFER TO E111

WETLAND C. REFER DRG. C1903 FOR DETAILS

FOR CONTINUATION REFER TO E109

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
7	P1	22.03.24	50% PRELIMINARY ISSUE	A.G.			



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE

ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 9

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	R.B.	SCALE @ A1
CHECKED	S.A.	1:200
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

DRAWING NO.
E108

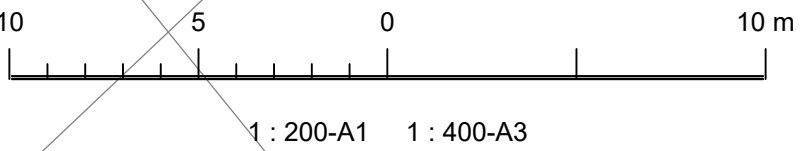
REV
P1

1 : 200-A1 1 : 400-A3

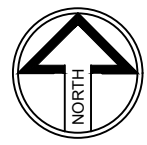


FOR CONTINUATION REFER TO E108

FOR CONTINUATION REFER TO E106



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	22.03.24	50% PRELIMINARY ISSUE	A.G.				



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PROJECT

WPCA BRADFIELD CITY CENTRE

TITLE

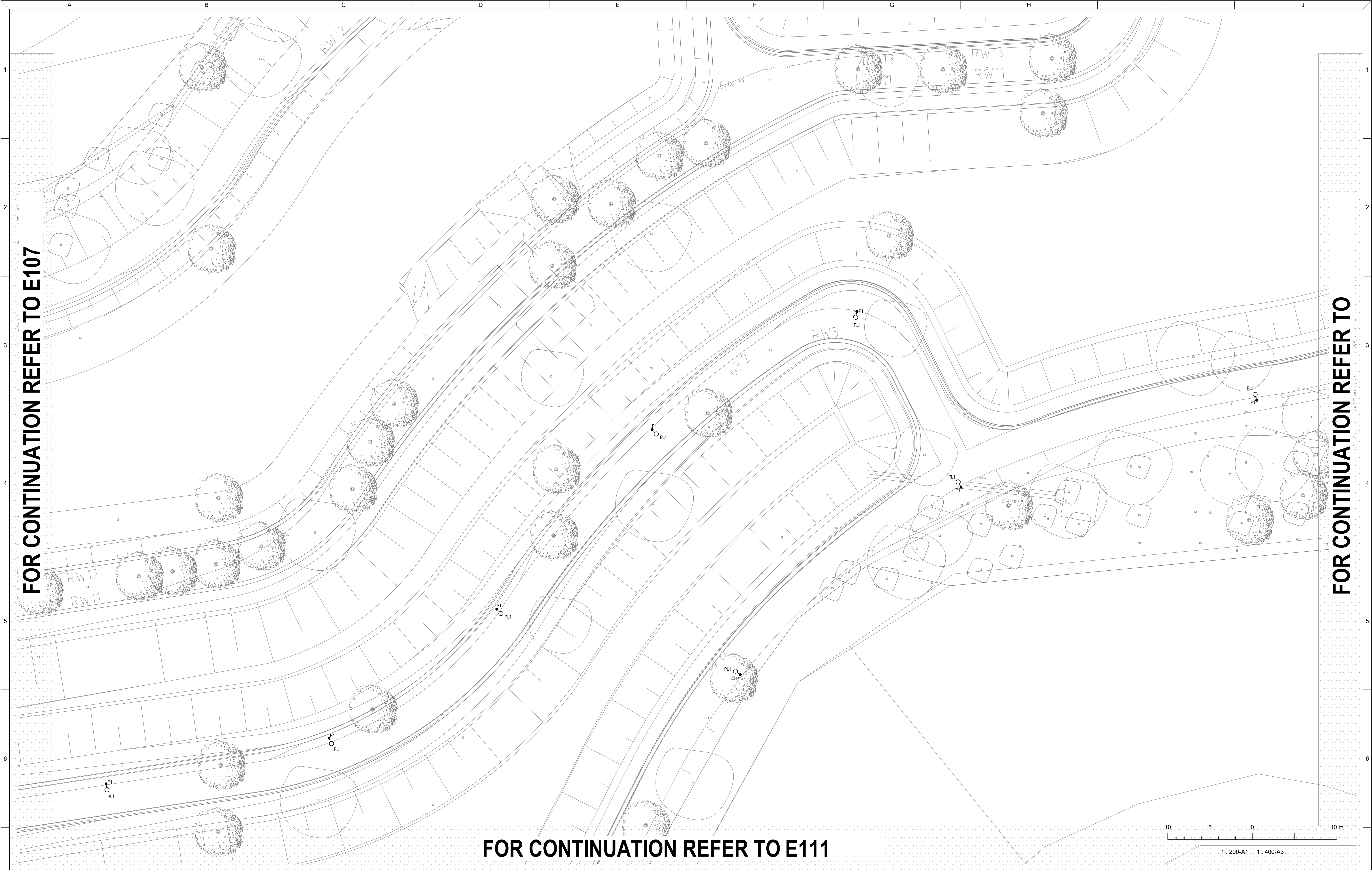
ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 10

PRELIMINARY ISSUE
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DRAWN	R.B.	SCALE @ A1 1:200
CHECKED	S.A.	
APPROVED	A.G.	
CREATED	MAR 2024	
JHA JOB No.	240018	

DRAWING NO.
E109

REV
P1



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
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WPCA BRADFIELD CITY CENTRE

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ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 11

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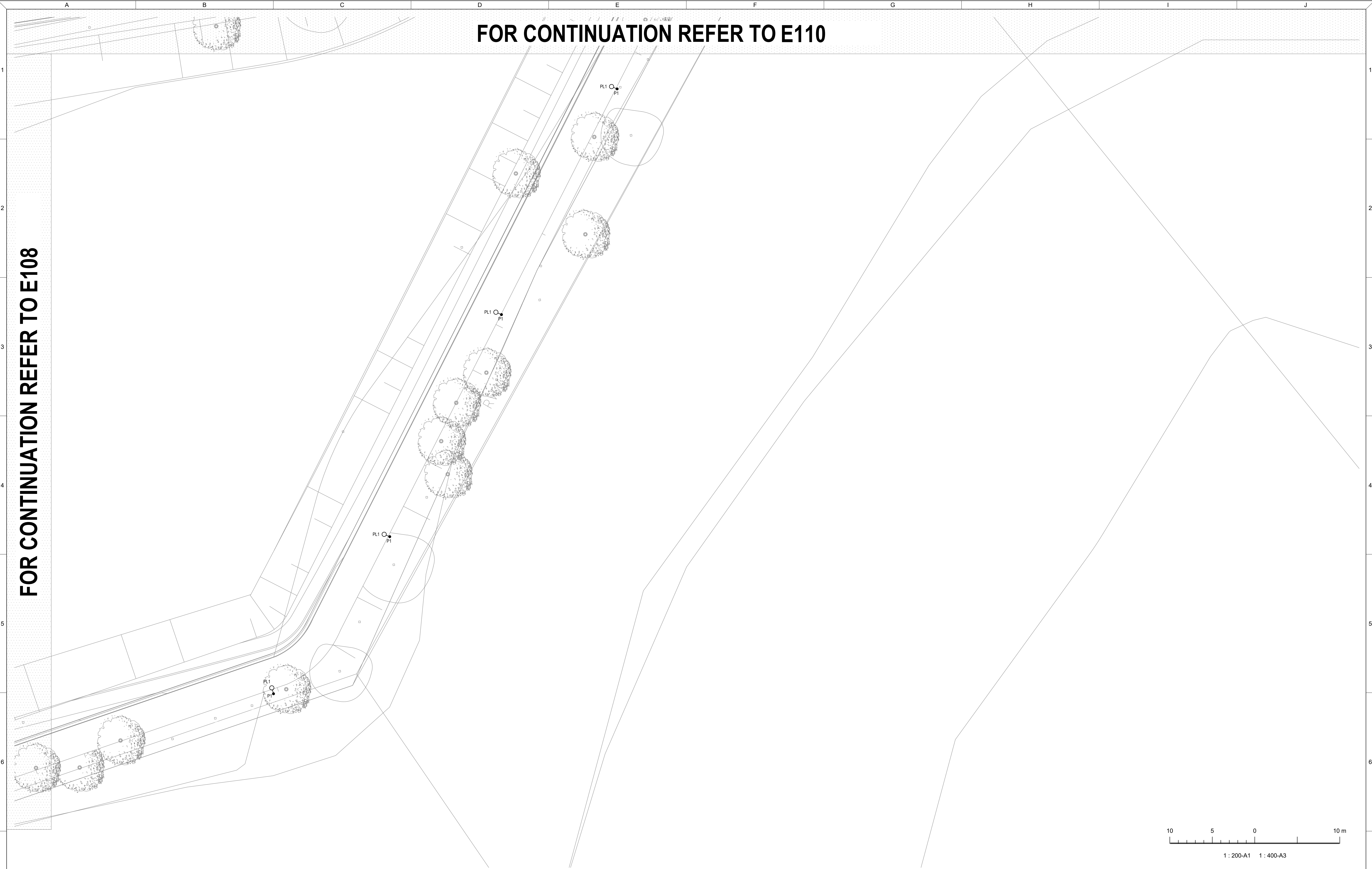
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PROJECT
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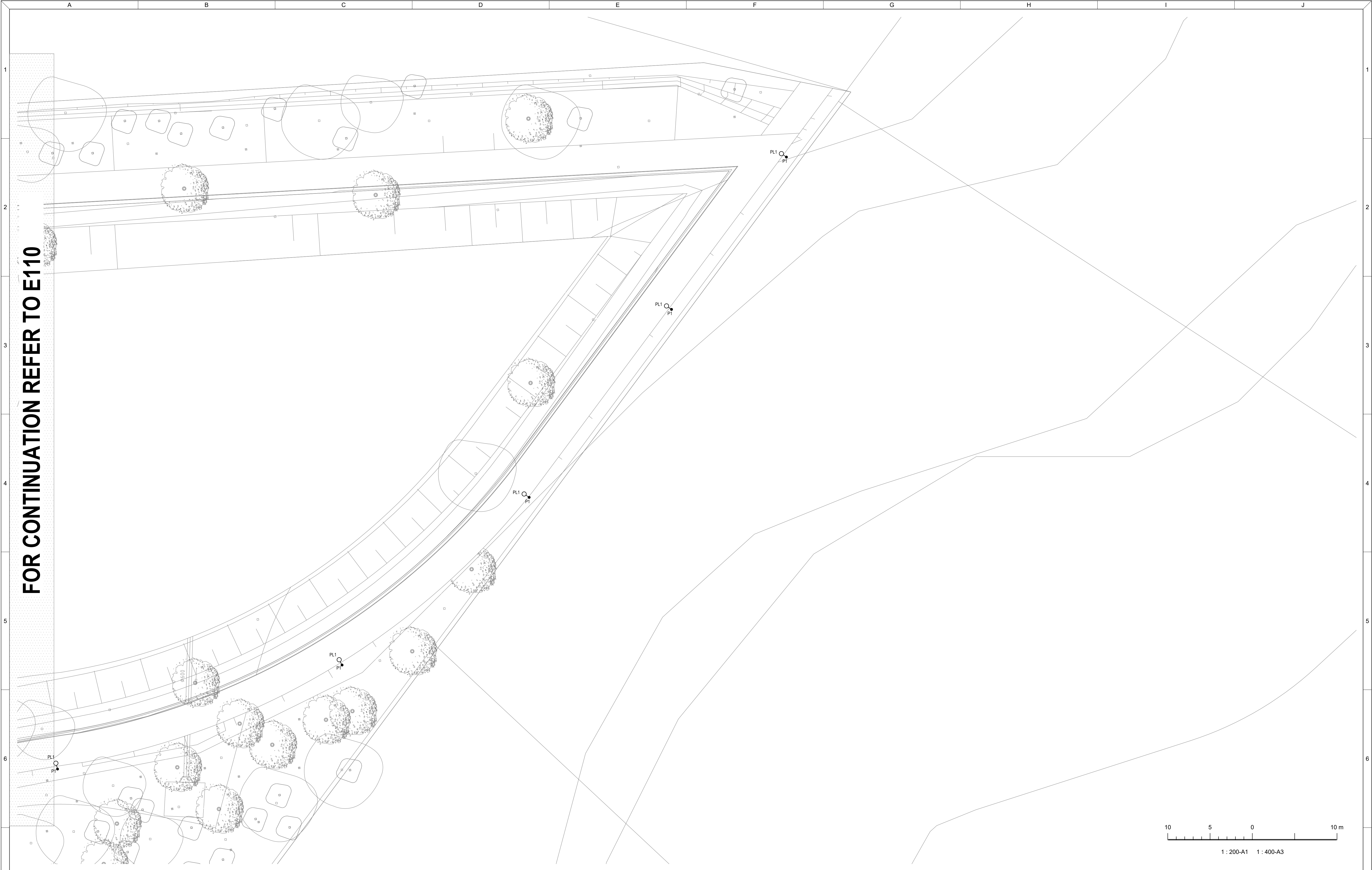
TITLE
**ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 12**

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WPCA BRADFIELD CITY CENTRE

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**ELECTRICAL SERVICES
EXTERNAL LIGHTING PLAN
SHEET 13**

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