



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

Website: www.edg.net.au Email: brisbane@edg.net.au

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## ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION A - 14 OCTOBER 2025

ISSUING INFORMATION				DATE OF ISSUE							
				DAY	14						
				MONTH	10						
				YEAR	25						
				REASON FOR ISSUE	P						
A = APPROVAL				C = CONSTRUCTION				D = % DEVELOPED AS NOTED			
								P = PRELIMINARY			
								T = TENDER			

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DOCUMENTS				REVISION							
C3599a-E01.dwg	LEGEND & DETAILS			A							
C3599a-E02.dwg	NOTES			A							
C3599a-E03.dwg	BASEMENT FLOOR PLAN			A							
C3599a-E04.dwg	BASEMENT REFLECTED CEILING PLAN			A							
C3599a-E05.dwg	GROUND & LEVEL 1 COMMUNAL SERVICES			A							
C3599a-E06.dwg	GROUND FLOOR PLAN			A							
C3599a-E07.dwg	GROUND REFLECTED CEILING PLAN			A							
C3599a-E08.dwg	LEVEL 1 FLOOR PLAN			A							
C3599a-E09.dwg	LEVEL 1 REFLECTED CEILING PLAN			A							
C3599a-E10.dwg	LEVEL 2 FLOOR PLAN			A							
C3599a-E11.dwg	LEVEL 2 REFLECTED CEILING PLAN			A							
C3599a-E12.dwg	TYPICAL DETAILS ELEVATIONS			A							
C3599a-E13.dwg	SCHEMATICS			A							
C3599a-0001.xls	CONTRACT DOCUMENT SCHEDULE			A							
C3599a-0002.xls	EQUIPMENT SCHEDULE			A							
C3599a-0004.xls	DISTRIBUTION BOARD DB-L SCHEDULE			A							
C3599a-0005.xls	DISTRIBUTION BOARD DB-P SCHEDULE			A							
C3599a-0006.xls	DISTRIBUTION BOARD DB-E SCHEDULE			A							
C3599a-0007.xls	DISTRIBUTION BOARD DB-1 SCHEDULE			A							
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C3599a-0009.xls	DISTRIBUTION BOARD DB-3 SCHEDULE			A							
C3599a-0010.xls	DISTRIBUTION BOARD DB-4 SCHEDULE			A							
C3599a-0011.xls	DISTRIBUTION BOARD DB-5 SCHEDULE			A							



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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 14 OCTOBER 2025

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK <a href="http://www.edg.net.au/links.html">www.edg.net.au/links.html</a>					
TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	3000K LED	AMENITY WALL LIGHT ARE PER THE ARCHITECTURAL ELEVATION ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$500.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A
L2	2 X 9W 3000K LED	TWO SURFACE MOUNTED CAN LIGHTS WITH A 25MM SEPARATION	WHITE	EQUAL TO RAPID LED COOLY-9 R1165	A
L3	13W 3000K LED	CIRCULATION RECESSED DOWNLIGHT C/W REMOTE TRAILING EDGE DIMMABLE DRIVER	WHITE TRIM	EQUAL TO RAPID LED CAPRI-120 R1352	A
L4	18W 3000K LED	LAUNDRY RECESSED DOWNLIGHT RECESSED DOWNLIGHT C/W REMOTE TRAILING EDGE DIMMABLE DRIVER	WHITE	EQUAL TO RAPID LED CAPRI-120 R1352	A
L5	18W 3000K LED	AMENITY RECESSED DOWNLIGHT RECESSED DOWNLIGHT C/W REMOTE TRAILING EDGE DIMMABLE DRIVER	WHITE	EQUAL TO RAPID LED CAPRI-120 R1352	A
L6	25W 3000K LED	BEDROOM RECESSED DOWNLIGHT RECESSED DOWNLIGHT C/W REMOTE TRAILING EDGE DIMMABLE DRIVER	WHITE	EQUAL TO RAPID LED CAPRI-140 R1353	A
L7	25W 3000K LED	ADJUSTABLE SPOT LIGHT C/W INTEGRAL DRIVER MOUNT THE FITTING ON TOP OF THE JOINERY TO ILLUMINATE UPWARD TO THE HIGH LEVEL CEILING	WHITE	EQUAL TO RAPID LED LUCCA-25 R1147-SA	A
L8	5W 3000K LED	12V DC GARDEN STAKE LIGHT PROVIDE A REMOTE POWER SUPPLY IN A CONCEALED ACCESSIBLE POSITION LOCATED ON THE AS CONSTRUCTED DRAWING. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L8 FITTINGS FROM A COMMON SUITABLY SIZED POWER SUPPLY	BLACK	EQUAL TO RAPID LED SPIKE-5 R6017	A
L9	3000K LED	SIGNAGE WALL LIGHT ARE PER THE ARCHITECTURAL ELEVATION ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$500.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A
L10	3000K LED	LIFT LOBBY WALL LIGHT ARE PER THE ARCHITECTURAL ELEVATION ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$500.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A
L11	1W 3000K LED	12V DC INGROUND UP LIGHT PROVIDE A REMOTE POWER SUPPLY IN A CONCEALED ACCESSIBLE POSITION LOCATED ON THE AS CONSTRUCTED DRAWING. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L11 FITTINGS FROM A COMMON SUITABLY SIZED POWER SUPPLY	BLACK	EQUAL TO RAPID LED NAVIGATOR R6121	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L12	3000K LED	EXTERNAL WALL LIGHT ARE PER THE ARCHITECTURAL ELEVATION ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$250.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A
L13	25W 3000K LED	RECESSED DOWNLIGHT RECESSED DOWNLIGHT C/W REMOTE TRAILING EDGE DIMMABLE DRIVER	WHITE	EQUAL TO RAPID LED CAPRI-140 R1353	A
L14	20W LED 4000K	600 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR	GREY	EQUAL TO RAPID LED HAWK-20 R3520-TRI + SENSOR	A
L15	156W RGB LED	UNDERWATER IP68 POOL LIGHT C/W REMOTE POWER SUPPLY AND RGB SELECTOR LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DRAWING.	NA	EQUAL TO RAPID LED R5011-RGB	A
L16	25W 4000K LED	CARPARK LIGHT C/W INTEGRAL DRIVER MOUNTED ON A 3200 HIGH 76 DIA POLE NO TILT	BLACK FITTING BLACK POLE	EQUAL TO RAPID LED R3222-BK-60	A
L17	900W 5000K LED	SURFACE MOUNTED IP 65 CARPARK ENTRY LIGHT C/W INTEGRAL DIMMABLE DRIVER AND ILLUMINATION LEVEL / MOVEMENT SENSOR. PROVIDE THE EXTERNAL CARPARK INSTALLATION WITH AN enLIGHTEN CECS CONTROLLER.	BLACK	EQUAL TO enLIGHTEN TAURO BLACK TB90-57-S3-CECS	A
L18	40W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR	GREY	EQUAL TO RAPID LED HAWK-40 R3540-TRI + SENSOR	A
L19	40W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	GREY	EQUAL TO RAPID LED HAWK-40 R3540	A
L20	20W 3000K LED	IP66 SURFACE MOUNTED EXTERNAL SHOWER BUNKER LIGHT C/W INTEGRAL DRIVER	WHITE	EQUAL TO RAPID LED R6232	A
L21	15W 3000K LED	EXTERNAL CAN DOWNLIGHT C/W INTEGRAL DRIVER	WHITE	EQUAL TO RAPID LED COOLY-15 R1166	A
L22	3000K LED	PENTHOUSE ARTWORK LIGHT SIGNAGE WALL LIGHT ARE PER THE ARCHITECTURAL ELEVATION ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$1000.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L23	3000K LED	PENTHOUSE KITCHEN BENCH PENDANT CONFIRM THE SUSPENSION HEIGHT WITH EH ARCHITECT ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$2000.00 PLUS GST FOR THE SUPPLY OF EACH FITTING	A
S1	14.4W/M 3000K LED	LED STRIP WITHIN A ALUMINIUM EXTRUSION C/W OPAL DIFFUSER SCREW FIXED IN PLACE UNDER THE OVERHEAD CUPBOARDS AS PER THE ARCHITECTURAL DETAILS. ENSURE THERE ARE NO EXPOSED LV CABLES. PROVIDE THE STRIP WITH REMOTE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	WHITE	RAPID LED 14.4W/M 3,000K 24VOLT DC IP20 R2334 + R2381 + POWER SUPPLY	A
S2	14.4W/M 3000K LED	MULTIPLE RUNS OF HORIZONTAL LED STRIP LIGHT C/W ALUMINIUM EXTRUSION AND OPAL DIFFUSER RECESSED (SCREW FIXED) INTO THE JOINERY AS PER THE ELEVATION AND THE ARCHITECTURAL DETAILS. ENSURE THERE ARE NO EXPOSED LV CABLES. PROVIDE THE STRIP WITH REMOTE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	WHITE	RAPID LED 14.4W/M 3,000K 24VOLT DC IP20 R2334 + R2382 + POWER SUPPLY	A
S3	14.4W/M 3000K LED	LED STRIP LIGHT C/W ALUMINIUM EXTRUSION AND OPAL DIFFUSER RECESSED (SCREW FIXED) INTO THE JOINERY AS PER THE ELEVATION AND THE ARCHITECTURAL DETAILS. ENSURE THERE ARE NO EXPOSED LV CABLES. PROVIDE THE STRIP WITH REMOTE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	WHITE	RAPID LED 14.4W/M 3,000K 24VOLT DC IP20 R2334 + R2382 + POWER SUPPLY	A
S4	14.4W/M 3000K LED	1800 LONG LED STRIP WITHIN A ALUMINIUM EXTRUSION C/W OPAL DIFFUSER SCREW FIXED IN PLACE BEHIND THE MIRROR AS PER THE ARCHITECTURAL DETAILS. ENSURE THERE ARE NO EXPOSED LV CABLES. PROVIDE THE STRIP WITH REMOTE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	WHITE	RAPID LED 14.4W/M 3,000K 24VOLT DC IP20 R2334 + R2381 + POWER SUPPLY	A
S5	3000K LED	CELLAR LED STRIP LIGHT	TBA	ALLOW A PC SUM OF \$5000.00 PLUS GST FOR THE SUPPLY AND INSTALLATION OF THE S5 FITTING	A



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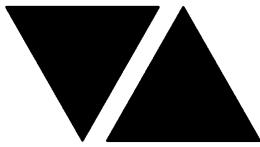
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	WHITE	CLEVERTRONICS LLIFE	A
EX BOH	LED	BACK OF HOUSE EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D1.25- C90-D2	WHITE	CLEVERTRONICS LCFLD	A
EX FOH	LED	FRONT OF HOUSE EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING SURFACE MOUNT OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D1.25- C90-D2	WHITE	CLEVERTRONICS LUBPRO-SM	A
EX WP	LED	EXIT LIGHT: MAINTAINED WEATHER PROOF 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D1.25- C90-D2	WHITE	CLEVERTRONICS LWELED	A
EMERGENCY PACK		LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			A
CEILING FAN		CEILING FAN ALLOW TO INSTALL	WHITE	ALLOW A PC SUM OF \$1000.00 PLUS GST FOR THE SUPPLY OF EACH CEILING FAN	A
CEILING FAN CONTROLLER		FAN SPEED CONTROLLER C/W OFF POSITION AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. ENSURE THE SPEED CONTROLLER IS COMPATIBLE WITH EH FAN.	WHITE	CLIPSAL ICONIC ESSENCE	A



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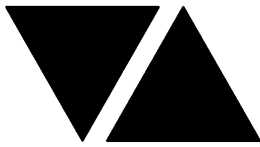
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
ONE-WAY LIGHT SWITCH		ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC ESSENCE	A
ONE-WAY LIGHT SWITCH (DIM)		ONE-WAY LIGHT SWITCH C/W TRAILING EDGE MANUAL POT DIMMER AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC ESSENCE	A
TWO-WAY LIGHT SWITCH		TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1100mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC ESSENCE	A
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	WHITE	CLIPSAL	A
CARPARK LIGHTING CONTROL MOVEMENT SENSOR (MS)		CEILING MOUNTED CARPARK LIGHTING CONTROL MOVEMENT SENSORS WIRED IN PARALLEL TO CONTROL THE CARPARK LIGHTING CIRCUITS TO TURN ON FOR FIVE MINUTES WHEN MOVEMENT IS DETECTED. SUBMIT DETAILS OF THE SENSORS AND THE PROPOSED CONFIGURATION FOR APPROVAL.			A
SPECIAL PURPOSE POWER OUTLET		SPECIAL PURPOSE POWER OUTLET. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. SIZE AND TYPE AS NOTED	-	CLIPSAL C2000 SERIES	A
BACK OF HOUSE DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O	WHITE	CLIPSAL C2000 SERIES	A
FRONT OF HOUSE DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O	WHITE	CLIPSAL ICONIC ESSENCE	A
DOUBLE POWER OUTLET (USB)		DOUBLE POWER OUTLET C/W USB A AND USB C CHARGING PORTS AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT ABOVE BENCH U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL ICONIC ESSENCE	A
DOUBLE POWER OUTLET (MB)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE MOUNTED IN THE CEILING SPACE FOR MOTORISED BLINDS. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES	A



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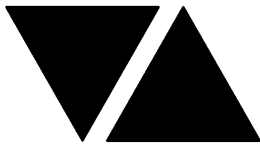
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BACK OF HOUSE SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O.	WHITE	CLIPSAL C2000 SERIES	A
FRONT OF HOUSE SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O.	WHITE	CLIPSAL ICONIC ESSENCE	A
SINGLE POWER OUTLET (FCU)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE MOUNTED IN THE CEILING SPACE FOR THE MECHANICAL FAN COIL UNIT. CONFIRM THE POSITION ON SITE WITH THE MECHANICAL SUB CONTRACTOR. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES	A
SINGLE POWER OUTLET (EF)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE MOUNTED IN THE CEILING SPACE FOR THE EXHAUST FAN. CONFIRM THE POSITION ON SITE WITH THE MECHANICAL SUB CONTRACTOR. SWITCH THE OUTLET WITH THE ROOM LIGHTS AND PROVIDE IT WITH AN ADJUSTABLE RUN ON TIMER. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES	A
SINGLE POWER OUTLET (DW)		DISHWASHER SINGLE 10 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTS PER THE KITCHEN ELEVATION	WHITE	CLIPSAL 2000 SERIES	A
SINGLE POWER OUTLET (MW)		DISHWASHER SINGLE 10 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTS PER THE KITCHEN ELEVATION	WHITE	CLIPSAL 2000 SERIES	A
SINGLE POWER OUTLET (OV)		OVEN SINGLE 20AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTS PER THE KITCHEN ELEVATION	WHITE	CLIPSAL 2000 SERIES	A
SINGLE POWER OUTLET (RH)		RANGE HOOD SINGLE 10 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTS PER THE KITCHEN ELEVATION	WHITE	CLIPSAL 2000 SERIES	A
WEATHERPROOF POWER OUTLET (WP)		IP54 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL WSCF227F	A
SINGLE-PHASE ISOLATOR		SINGLE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.	-	CLIPSAL WHT20	A



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SINGLE-PHASE ISOLATOR (CT)		COOK TOP 32 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTAS PER THE KITCHEN ELEVATION PROVIDE A REMOTE ISOLATION SWITCH AS PER AS3000.	-	CLIPSAL WHT20	A
THREE-PHASE ISOLATOR		THREE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT. "RSD" DENOTES ROLLER SHUTTER DOOR SUPPLY - COORDINATE LOCATION ONSITE WITH MOTOR.	-	CLIPSAL WHT35	A
THREE-PHASE ISOLATOR (HWS)		HOT WATER SYSTEM THREE-PHASE WEATHERPROOF ISOLATOR. RATING 32A U.N.O. CONNECT TO THE HWS VIA FLEXIBLE CONDUIT. COORDINATE LOCATION ONSITE WITH THE HYDRAULIC SUB CONTRACTOR.	-	CLIPSAL WHT35	A
FLOOR HEATER (FH)		IPX7 150W / M SQR IN FLOOR HEATER COVERING THE HATCHED AREA INDICATED C/W WALL MOUNTED CONTROL LOCATED ADJACENT THE ROOMS LIGHT SWITCH. THE SYSTEM IS TO CONTAIN AN INTEGRAL THERMOSTAT WITHIN THE FLOOR. ENSURE THE IN FLOOR HEATER IS COMPATIBLE WITH THE FLOOR FINISH. SUBMIT DETAILS OF THE HEATER AND CONTROL FOR APPROVAL.	WHITE	CLIPSAL ICONIC ESSENCE FACEPLATE	A
SMOKE ALARM TEST FACILITY (TF)		SURFACE MOUNTED SMOKE ALARM TEST / RESET FACILITY TO TEST / RESET THE ASSOCIATED APARTMENTS SMOKE ALARMS.			A
SMOKE ALARM (S)		SURFACE MOUNTED OPTICAL PHOTOELECTRIC SMOKE ALARM TO AS3786 C/W HARDWIRED MAINS POWER SUPPLY AND A TAMPER PROOF 10 YEAR LITHIUM BATTERY WITH ALL SMOKE ALARMS WITHIN AN APARTMENT INTERCONNECTED SUCH THAT ALL ALARMS WITHIN THAT APARTMENT SOUND SIMULTANEOUSLY.			A
EV CHARGER (EVC)		7KW EV CHARGER			A
NBN PREMISE CONNECTION DEVICE (PCD)		NBN COMPLIANT PREMISES CONNECTION DEVICE. CONNECT THE PCD TO THE TELSTRA PIT VIA AN NBN COMPLIANT LEAD-IN CONDUIT.			A
NBN SPLITTER DISTRIBUTION TERMINAL (SDT8)		NBN COMPLIANT TYPE 8 OPTICAL SPLITTER.			A
NBN NETWORK TERMINATION UNIT (NTD)		NBN COMPLIANT NETWORK TERMINATION UNIT TO BE PROVIDED IN ACCORDANCE WITH THE NBN REQUIREMENTS.			A





# ELECTRICAL DESIGN GROUP

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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 14 OCTOBER 2025

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK <a href="http://www.edg.net.au/links.html">www.edg.net.au/links.html</a>					
TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
CAT 6 COMMUNICATIONS OUTLET		CAT 6 COMMUNICATIONS OUTLET C/W ENGRAVED PORT IDENTIFICATION ON THE FACEPLATE. CABLE EACH APARTMENT OUTLET TO THE ASSOCIATED APARTMENTS COMMUNICATION HUB AND THE COMMUNAL OUTLETS TO THE COMMUNAL HUB VIA CAT 6 UTP CABLE. MOUNT AT 300 AFFL U.N.O.	WHITE	CLIPSAL ICONIC ESSENCE	A
COMMUNICATIONS HUB		MULTI GANG FACE PLATES C/W ONE CAT 6 PORT PER COMMUNICATIONS OUTLET. ENGRAVE EACH PORT WITH THE ASSOCIATED OUTLET NUMBER.	WHITE	CLIPSAL 2000 SERIES	A
COMMUNICATIONS RACK (CR-A)		PROVIDE CR-A AS A 12 RU WALL MOUNTED RACK TO HOUSE THE			A
MSB		MAIN SWITCHBOARD IN ACCORDANCE WITH THE QECM V4 REQUIREMENTS. REFER TO THE NOTES AND POWER SCHEMATIC.			A
DB-P		COMMUNITY POWER DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-L		COMMUNITY LIGHTING DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-E		COMMUNITY EV CHARGING DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-1		APARTMENT 1 DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-2		APARTMENT 2 DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-3		APARTMENT 3 DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-4		APARTMENT 4 DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
DB-5		APARTMENT 5 DISTRIBUTION BOARD REFER TO THE NOTES AND DB SCHEDULE.			A
POOL BOARD		POOL DISTRIBUTION BOARD SUPPLIED AS PART OF THE POOL SUB CONTRAT			A



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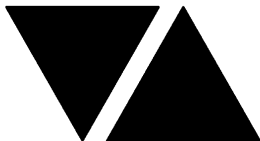
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## ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
EXIT LOOP		ACCESS CONTROL INSITU ROLLER SHUTTER DOOR EXIT LOOP			A
FIRE INDICATOR PANEL (FIP)		FIRE INDICATOR PANEL			A
QECM V4 WHOLE CURRENT THREE PHASE METER (M)		QECM V4 WHOLE CURRENT THREE PHASE METER			A
LOAD MANAGEMENT MONITOR (LM)		EV CHARGING LOAD MANAGEMENT MONITORING POINT			A
NCC PART J9 D3 ENERGY METER (EM)		ENERGY MONITORING SYSTEM METER AS PER J9D3 OF THE NCC BCA 2022			A
GENERATION SIGNALLING DEVICE (GSD)		QECM V4 COMPLIANT GENERATION SIGNALLING DEVICE INCLUDING ALL ASSOCIATED COMPONENTS			A
DEMAND RESPONSE SITE CONTROLLER (DRSC)		QECM V4 COMPLIANT DEMAND RESPONSE SITE CONTROLLER INCLUDING ALL ASSOCIATED COMPONENTS			A
GENERATION SIGNALLING DEVICE (GSD)		QECM V4 COMPLIANT GENERATION SIGNALLING DEVICE INCLUDING ALL ASSOCIATED COMPONENTS			A
DEMAND RESPONSE SITE CONTROLLER (DRSC)		QECM V4 COMPLIANT DEMAND RESPONSE SITE CONTROLLER INCLUDING ALL ASSOCIATED COMPONENTS			A
ELECTRIC VEHICLE CHARGING ISOLATION SWITCH (CIS)		ELECTRIC VEHICLE CHARGING ISOLATION SWITCH PUSH BUTTON WIRED TO THE EV CHARGER SUPPLY CIRCUIT BREAKER SHUNT TRIP TO ISOLATE THE POWER TO THE ELECTRIC VEHICLE CHARGERS. MOUNTED AT 1800mm AFFL UNLESS NOTED OTHERWISE. PROVIDE COLOURED ENGRAVED TEXT AS PER THE CIS ELEVATION.	WHITE	CLIPSAL C2000 SERIES 30USM	A
VIDEO INTERCOM CALL STATION (ICS)		FLUSH WALL MOUNTED IP VANDAL RESISTANT MASTER AND FREE 2MP VIDEO INTERCOM CALL STATION TO ALLOW SPECIFIC APARTMENTS TO BE CONTACTED VIA THE APARTMENTS VIDEO INTERCOM HANDSET. THE CALL STATION IS TO CONTAIN BACK LITE CALL BUTTONS. PROVIDE DETAILS OF THE VIDEO INTERCOM SYSTEM FOR APPROVAL.			A
VIDEO INTERCOM HANDSET (IHS)		FLUSH WALL MOUNTED IP VIDEO INTERCOM SLAVE HAND FREE HAND SET / 7 INCH SCREEN TO ALLOW COMMUNICATION WITH THE ASSOCIATED CALL STATION. INTERFACE THE VIDEO INTERCOM SYSTEM TO THE ACCESS CONTROL SYSTEM SUCH THAT ACCESS CAN BE GRANTED TO THE APARTMENT VIA THE ACCESS ROUTE FROM THE ASSOCIATED CALL STATION. PROVIDE A FUNCTIONAL DESCRIPTION OF THE OPERATION OF THE VIDEO INTERCOM SYSTEM AND THE ACCESS CONTROL SYSTEM FOR APPROVAL.			A
CAMERA (C)		CEILING MOUNTED POE IP DOME COLOUR C/W AUTO IRIS, DAY / NIGHT MODE, CMOS IMAGING, 1/3" SENSOR A 5PM IMAGE AND A 30 FPS RATE. ENSURE THE CAMERA WILL OPERATE AT 0.5 LUX IN COLOUR AND AT 0.1 LUX IN BLACK AND WHITE.			A



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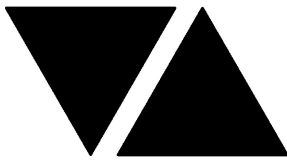
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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 14 OCTOBER 2025

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
ELECTRIC STRIKE (ES)		PROVIDE A CONCEALED ELECTRIC STRIKE COMPATIBLE WITH THE DOOR TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL THE DOOR.			A
LIFT INTERFACE MODULE (LIM)		PROVIDE AN INTERFACE TO THE LIFT TO ALLOW A CAMERA TO BE INSTALLED IN THE LIFT AND THE LIFT TO BE CONTROLLED BY THE ACCESS CONTROL SYSTEM.			A
ROLLER SHUTTER DOOR INTERFACE (RSD)		PROVIDE AN INTERFACE TO THE ROLLER SHUTTER DOOR CONTROLLER TO ALLOW IT TO BE CONTROLLED BY THE ACCESS CONTROL SYSTEM. THE RSD IS TO BE OPENED VIA FOBS OR THE OPERATION OF THE INSITU INDUCTION LOOP.			A
CARD READER (CR)		WALL MOUNTED VANDAL RESISTANT ACCESS CONTROL CARD READER.			A
PV INVERTER (INV)		33KW IP 66 3 PHASE PV INVERTER C/W 5 YEAR REPLACEMENT WARRANTY CONNECTED TO THE PV PANELS. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE DETAILS OF THE PV SYSTEM AND DESIGN FOR APPROVAL. CONNECT THE INVERTER TO THE ENERGEX GENERATION SIGNALLING DEVICE / DEMAND RESPONSE SITE CONTROLLER AS PER THE QECM V4			A
MATV HEAD END		PROVIDE A MATV HEADEND WITH ALL NECESSARY POWER SUPPLIES TO DISTRIBUTE THE FREE TO AIR AND FOXTEL TELEVISION SERVICES TO ALL MATV OUTLETS VIA A 5 WIRE SYSTEM IN ACCORDANCE WITH THE FOXTEL REQUIREMENTS. PROVIDE A SHOP DRAWING OF THE MATV SYSTEM INCLUDING THE MATV HEADEND FOR APPROVAL.			A
TELEVISION MATV OUTLET		MATV OUTLET CONNECTED TO THE ANTENNA IN STAR CONFIGURATION VIA RG6 CABLE TO FACILITATE THE DISTRIBUTION OF FOXTEL AND FREE TO AIR SERVICES. MOUNT AT 300mm AFFL U.N.O.	WHITE	CLIPSAL ICONIC ESSENCE	A



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**DISTRIBUTION BOARD DB-L**

**REVISION A - 14 OCTOBER 2025**

							REV
FAULT CURRENT: 6KA CHASSIS SIZE: 30 POLE CHASSIS RATING: 250A PHASES: 3							A
MAIN SWITCH: 100A NON AUTO LOAD BREAK SUPPLIED FROM: MSB SUPPLY CABLE: 4C+E 10							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A
L1	3	40	RCBO MS	6.0	BASEMENT	LIGHTING	A
L2	3	20	RCBO MS	2.5	BASEMENT	LIGHTING	A
L3	3	20	RCBO	2.5	PLANT / STAIRS	LIGHTING	A
L4	3	20	RCBO	2.5	LOBBIES	LIGHTING	A
L5	1	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L6	3	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L7	3	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L8	3	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L9	3	20	RCBO PE CELL ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L10	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L11	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L12	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L13	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L14	1	20	RCBO PE CELL ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L15	1	20	RCBO	2.5	EXTERNAL	LIGHTING	A
L16	1	20	RCBO	2.5	EXTERNAL	LIGHTING	A
L17	1	20	RCBO	2.5	EXTERNAL	LIGHTING	A
L18	1	20	RCBO	2.5	EXTERNAL	LIGHTING	A
							A
							A

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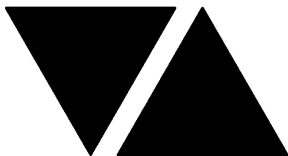
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## DISTRIBUTION BOARD DB-P

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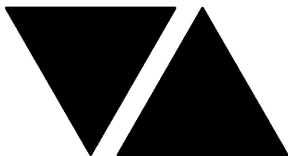
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DISTRIBUTION BOARD DB-E

REVISION A - 14 OCTOBER 2025

							REV
FAULT CURRENT: 6KA							A
MAIN SWITCH: 100A NON AUTO LOAD BREAK							A
CHASSIS SIZE: 30 POLE							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C+E 10							A
PHASES: 3							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A
							A



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DISTRIBUTION BOARD DB-1

REVISION A - 14 OCTOBER 2025

FAULT CURRENT: 6KA							MAIN SWITCH: 100A NON AUTO LOAD BREAK  SUPPLIED FROM: MSB  SUPPLY CABLE: 4C+E 16	REV
CHASSIS SIZE: 30 POLE								A
CHASSIS RATING: 250A								A
PHASES: 3								A
REFER TO THE POWER SCHEMATIC FOR DETAILS OF CIRCUITS P1 AND P2. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A	
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A	
P3	1	32	RCBO	6.0	KITCHEN	COOK TOP	A	
P4	3	32	RCBO	6.0	LAUNDRY	HWS	A	
P5	1	20	RCBO	2.5	KITCHEN	OVEN	A	
P6	1	20	RCBO	2.5		GPO	A	
P7	1	20	RCBO	2.5		GPO	A	
P8	1	20	RCBO	2.5		GPO	A	
P9	1	20	RCBO	2.5		GPO	A	
P10	1	20	RCBO	2.5		GPO	A	
P11	1	20	RCBO	2.5		GPO	A	
							A	
							A	
L1	1	20	RCBO	2.5		LIGHTS	A	
L2	1	20	RCBO	2.5		LIGHTS	A	
L3	1	20	RCBO	2.5		LIGHTS	A	
							A	
							A	
							A	



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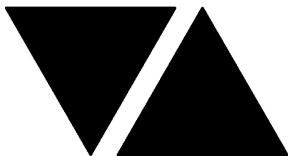
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DISTRIBUTION BOARD DB-2

REVISION A - 14 OCTOBER 2025

							REV
FAULT CURRENT: 6KA							A
MAIN SWITCH: 100A NON AUTO LOAD BREAK							A
CHASSIS SIZE: 30 POLE							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C+E 16							A
PHASES: 3							A
REFER TO THE POWER SCHEMATIC FOR DETAILS OF CIRCUITS P1 AND P2. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A
P3	1	32	RCBO	6.0	KITCHEN	COOK TOP	A
P4	3	32	RCBO	6.0	LAUNDRY	HWS	A
P5	1	20	RCBO	2.5	KITCHEN	OVEN	A
P6	1	20	RCBO	2.5		GPO	A
P7	1	20	RCBO	2.5		GPO	A
P8	1	20	RCBO	2.5		GPO	A
P9	1	20	RCBO	2.5		GPO	A
P10	1	20	RCBO	2.5		GPO	A
P11	1	20	RCBO	2.5		GPO	A
							A
							A
L1	1	20	RCBO	2.5		LIGHTS	A
L2	1	20	RCBO	2.5		LIGHTS	A
L3	1	20	RCBO	2.5		LIGHTS	A
							A
							A
							A





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DISTRIBUTION BOARD DB-3

REVISION A - 14 OCTOBER 2025

<div>FAULT CURRENT: 6KA</div> <div>CHASSIS SIZE: 30 POLE</div> <div>CHASSIS RATING: 250A</div> <div>PHASES: 3</div> <div>MAIN SWITCH: 100A NON AUTO LOAD BREAK</div> <div>SUPPLIED FROM: MSB</div> <div>SUPPLY CABLE: 4C+E 16</div>							REV
							A
							A
							A
REFER TO THE POWER SCHEMATIC FOR DETAILS OF CIRCUITS P1 AND P2. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A
							A
P3	1	32	RCBO	6.0	KITCHEN	COOK TOP	A
P4	3	32	RCBO	6.0	LAUNDRY	HWS	A
P5	1	20	RCBO	2.5	KITCHEN	OVEN	A
P6	1	20	RCBO	2.5		GPO	A
P7	1	20	RCBO	2.5		GPO	A
P8	1	20	RCBO	2.5		GPO	A
P9	1	20	RCBO	2.5		GPO	A
P10	1	20	RCBO	2.5		GPO	A
P11	1	20	RCBO	2.5		GPO	A
							A
							A
L1	1	20	RCBO	2.5		LIGHTS	A
L2	1	20	RCBO	2.5		LIGHTS	A
L3	1	20	RCBO	2.5		LIGHTS	A
							A
							A
							A



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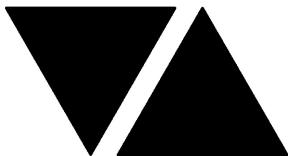
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DISTRIBUTION BOARD DB-4

REVISION A - 14 OCTOBER 2025

FAULT CURRENT: 6KA							MAIN SWITCH: 100A NON AUTO LOAD BREAK  SUPPLIED FROM: MSB  SUPPLY CABLE: 4C+E 16	REV
CHASSIS SIZE: 30 POLE								A
CHASSIS RATING: 250A								A
PHASES: 3								A
REFER TO THE POWER SCHEMATIC FOR DETAILS OF CIRCUITS P1 AND P2. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A	
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A	
P3	1	32	RCBO	6.0	KITCHEN	COOK TOP	A	
P4	3	32	RCBO	6.0	LAUNDRY	HWS	A	
P5	1	20	RCBO	2.5	KITCHEN	OVEN	A	
P6	1	20	RCBO	2.5		GPO	A	
P7	1	20	RCBO	2.5		GPO	A	
P8	1	20	RCBO	2.5		GPO	A	
P9	1	20	RCBO	2.5		GPO	A	
P10	1	20	RCBO	2.5		GPO	A	
P11	1	20	RCBO	2.5		GPO	A	
							A	
							A	
L1	1	20	RCBO	2.5		LIGHTS	A	
L2	1	20	RCBO	2.5		LIGHTS	A	
L3	1	20	RCBO	2.5		LIGHTS	A	
							A	
							A	
							A	



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C3599a - TI-TREE COLLECTIVE




















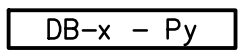





















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DISTRIBUTION BOARD DB-5





































REVISION A - 14 OCTOBER 2025

FAULT CURRENT: 6KA							REV
MAIN SWITCH: 100A NON AUTO LOAD BREAK							A
CHASSIS SIZE: 48 POLE							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C+E 16							A
PHASES: 3							A
REFER TO THE POWER SCHEMATIC FOR DETAILS OF CIRCUITS P1 AND P2. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	A
P3	1	32	RCBO	6.0	KITCHEN	COOK TOP	A
P4	3	32	RCBO	6.0		HWS	A
P5	3	32	RCBO	6.0		HWS	A
P6	3	32	RCBO	6.0		HWS	A
P7	1	20	RCBO	2.5	KITCHEN	OVEN	A
P8	1	20	RCBO	2.5		GPO	A
P9	1	20	RCBO	2.5		GPO	A
P10	1	20	RCBO	2.5		GPO	A
P11	1	20	RCBO	2.5		GPO	A
P12	1	20	RCBO	2.5		GPO	A
P13	1	20	RCBO	2.5		GPO	A
P14	1	20	RCBO	2.5		GPO	A
P15	1	20	RCBO	2.5		GPO	A
P16	1	20	RCBO	2.5		GPO	A
P17	1	20	RCBO	2.5		GPO	A
P18	1	20	RCBO	2.5		GPO	A
							A
							A
							A
L1	1	20	RCBO	2.5		LIGHTS	A
L2	1	20	RCBO	2.5		LIGHTS	A
L3	1	20	RCBO	2.5		LIGHTS	A
L4	1	20	RCBO	2.5		LIGHTS	A
L5	1	20	RCBO	2.5		LIGHTS	A
L6	1	20	RCBO	2.5		LIGHTS	A
							A
							A
							A
							A






LEGEND

-  ELECTRICAL SERVICES SWITCHBOARD.
-  SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
-  ELECTRICAL CABLE TRAY / LADDER.
-  SINGLE POWER OUTLET. TYPE AS NOTED.
-  DOUBLE POWER OUTLET. TYPE AS NOTED.
-  SPECIAL PURPOSE POWER OUTLET.
-  SINGLE PHASE ISOLATOR.
-  THREE PHASE ISOLATOR.
-  CONDUIT ROUTE.
-  TELSTRA / NBN PIT.
-  LIGHTING MOTION SENSOR SWITCH.
-  LIGHTING PRESENCE DETECTOR SWITCH.
-  ONE-WAY LIGHT SWITCH.
-  ONE-WAY LIGHT SWITCH C/W DIMMER.
-  TWO-WAY LIGHT SWITCH.
-  CEILING FAN SPEED CONTROLLER (FSC).
-  CEILING FAN.
-  CIRCUIT LINE.
-  SWITCH LINE.
-  DB-x - Py POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  MATV BELLING-LEA OUTLET.
-  RJ45 COMMUNICATIONS OUTLET.
-  RJ45 COMMUNICATIONS OUTLET HUB.
-  NBN NETWORK TERMINATION DEVICE.
-  NBN TYPE 8 OPTICAL SPLITTER.
-  NBN PREMISES CONNECTION DEVICE.
-  ACCESS CONTROL CARD READER.
-  ACCESS CONTROL DOOR ELECTRIC STRIKE.
-  ACCESS CONTROL LIFT INTERFACE MODULE.
-  ACCESS CONTROL ROLLER SHUTTER DOOR INTERFACE.
-  CCTV CAMERA.
-  VIDEO INTERCOM CALL STATION.
-  VIDEO INTERCOM HANDSET
-  PV SOLAR SYSTEM INVERTER.
-  ELECTRIC VEHICLE CHARGER.
-  ELECTRIC VEHICLE CHARGING ISOLATION SWITCH.
-  FIRE INDICATOR PANEL.
-  SMOKE ALARM.
-  SMOKE ALARM TEST FACILITY.
-  FLOOR HEATER.

LEGEND

-  SINGLE PHASE.
-  THREE PHASE.
-  FUSED LINK.
-  AUTOMATIC CIRCUIT BREAKER.
-  NON AUTO LOAD BREAK ISOLATOR.
-  RESIDUAL CURRENT DEVICE. TYPE A UNO.
-  CONTACTOR - NORMALLY OPEN.
-  CONTACTOR - NORMALLY CLOSED.
-  L1. AMENITY WALL LIGHT.
-  L2. DOUBLE SURFACE MOUNTED CAN DOWNLIGHTS.
-  L3. 13W RECESSED DOWNLIGHT.
-  L4. 18W RECESSED DOWNLIGHT.
-  L5. 18W RECESSED DOWNLIGHT.
-  L6. 25W RECESSED DOWNLIGHT.
-  L7. ADJUSTABLE JOINERY MOUNTED UPLIGHT.
-  L8. GARDEN STAKE LIGHT.
-  L9. WALL MOUNTED SIGN LIGHT.
-  L10. LIFT LOBBY WALL LIGHT.
-  L11. INGROUND UPLIGHT.
-  L12. EXTERNAL WALL LIGHT.
-  L13. 25W RECESSED DOWNLIGHT.
-  L14. 600 LONG IP65 BATTEN.
-  L15. UNDERWATER RGB POOL LIGHT.
-  L16. 3200 HIGH POLE MOUNTED CARPARK LIGHT.
-  L17. SURFACE MOUNTED DIMMABLE CARPARK ENTRY LIGHT.
-  L18. 1200 LONG IP65 BATTEN C/W SENSOR.
-  L19. 1200 LONG IP65 BATTEN.
-  L20. SURFACE MOUNTED SHOWER BUNKER LIGHT.
-  L21. SURFACE MOUNTED CAN DOWNLIGHT.
-  L22. PENTHOUSE WALL MOUNTED ARTWORK LIGHT.
-  L23. PENTHOUSE KITCHEN PENDANT LIGHT.
-  S1. OVERHEAD CUPBOARD LED STRIP LIGHT.
-  S2. HORIZONTAL SHELIVING LED STRIP LIGHT.
-  S3. JOINERY LED STRIP LIGHT.
-  S4. 1800 LONG VERTICAL LED STRIP MIRROR LIGHT.
-  S5. CELLAR LED STRIP LIGHT.

LEGEND

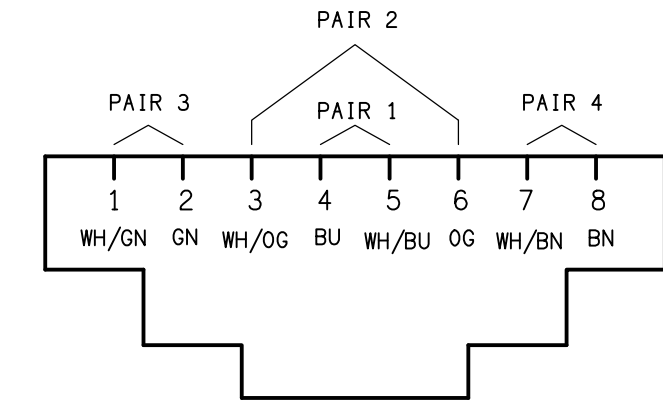
-  REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
-  E1: GENERAL LED EMERGENCY LIGHT.
-  EX: EMERGENCY LED EXIT LIGHT.
-  EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT.
-  Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.

NOTE

ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.

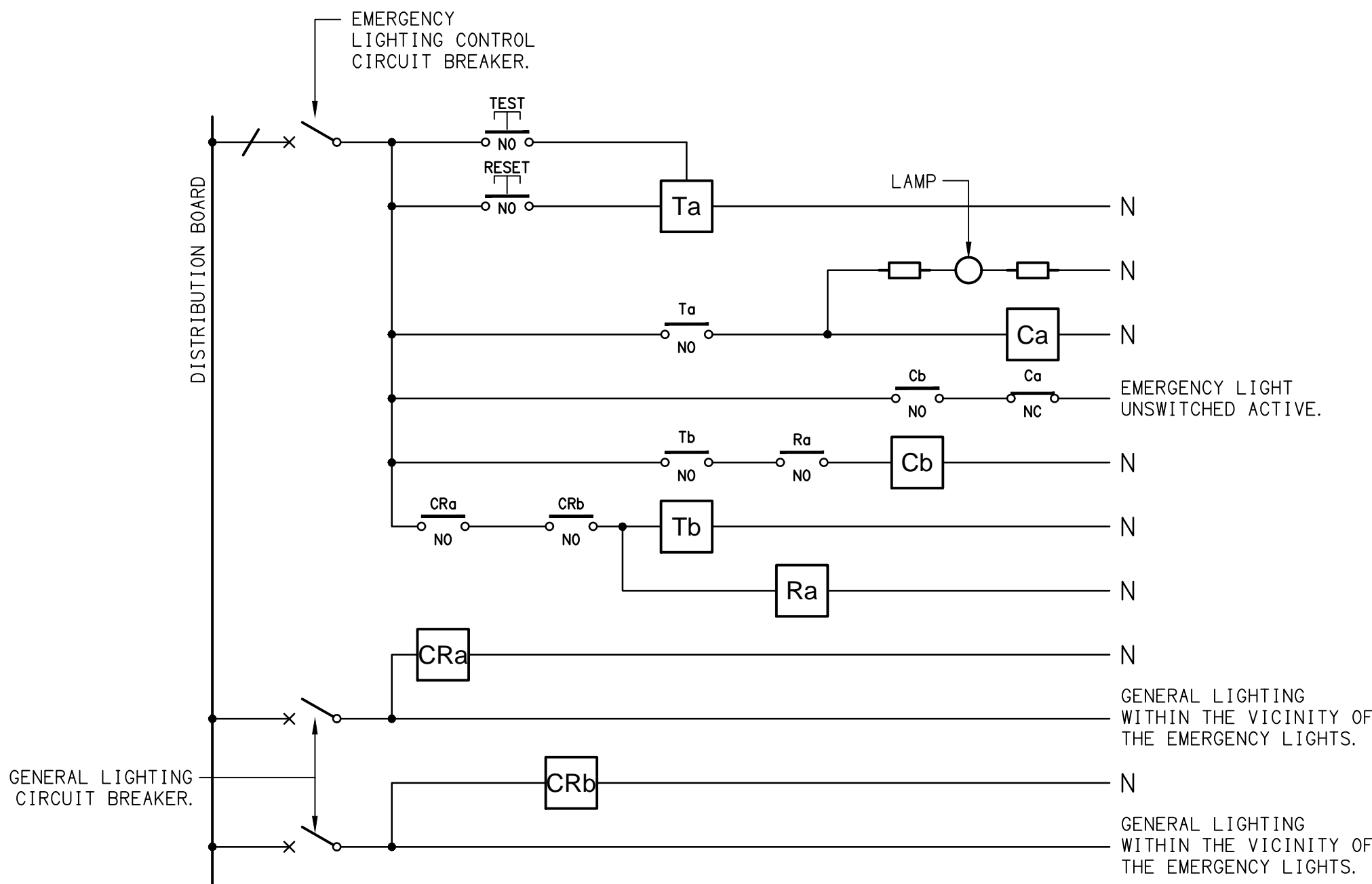
EQUIPMENT:

- TEST - TEST PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- RESET - RESET PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- LAMP - AMBER TEST INDICATING LAMP MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- Ta - ADJUSTABLE 0-3 HOUR TIMED RELAY.
- Tb - 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.
- Cx - CONTACTOR x.
- CRx - CONTROL RELAY x.
- Rx - RELAY x.



SCHEMATIC

RJ45 PINOUT CONFIGURATION  
NOT TO SCALE



NOTES

- THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
- PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY OF THE EMERGENCY LIGHTS.

SCHEMATIC

EMERGENCY LIGHTING  
NOT TO SCALE

THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.

USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.

ALL DIMENSIONS TO BE VERIFIED ONSITE.

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ELECTRICAL BUILDING SERVICES CONSULTANTS

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ELECTRICAL DESIGN GROUP BRISBANE PTY LTD  
ACN 092 710 793

TRADING AS:  
ELECTRICAL DESIGN GROUP

PROJECT:

TI-TREE COLLECTIVE

SITE ADDRESS:  
294-298 GIVEN TERRACE, PADDINGTON  
BRISBANE, QUEENSLAND

SCALE: SHEET SIZE:

NOT TO SCALE AT A1

DRAWING TITLE:

**ELECTRICAL SERVICES  
LEGEND & DETAILS**

PROJECT NO: DRAWING NO: REVISION:

**C3599a E01 A**



NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS.
- ACCESS CONTROL.
- VIDEO INTERCOM.
- CCTV CABLING.
- BACKGROUND MUSIC.
- FIRE ALARM SYSTEM.
- MATV SYSTEM.
- AS CONSTRUCTED DOCUMENTS AND MAINTENANCE MANUAL.
- OPERATOR TRAINING.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION OF ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REFER TO THE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE ELECTRICAL WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE AND THE SERVICES COVERED BY THE ACMA IS PERFORMED BY THE HOLDER OF THE APPROPRIATE CURRENT ACMA LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER’S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- ENERGEX REQUIREMENTS
- THE QUEENSLAND ELECTRICITY CONNECTION MANUAL V4 (QECM) AND THE NATIONAL ELECTRICITY METERING STANDARDS (NEM).
- AS/NZS3000.
- AS3008
- LOCAL BRIGADE.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA.
- LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY.
- QLD FIRE AND EMERGENCY SERVICES.

ENSURE ALL ASPECTS OF THE ELECTRICAL SERVICES COMPLY WITH THE FIRE ENGINEERING REPORT AND THE DEVELOPMENT APPROVAL.

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS’ RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

6. POWER DISTRIBUTION

ARRANGE WITH ENERGEX TO HAVE A 250 AMP SUPPLY PROVIDED TO THE SITE VIA NEW GALVANIZE STEEL PROPERTY POLE. PROVIDE UNDERGROUND CONSUMERS MAINS FROM THE PROPERTY POLE TO THE MAIN SWITCHBOARD (MSB).

THE MSB IS TO CONTAIN SPACE FOR FOUR THREE PHASE CIRCUIT BREAKERS, SPACE FOR ENERGY MONITORING EQUIPMENT AND 12 SPARE DIN RAIL POLES FOR THE FUTURE CONNECTION SOLAR / BATTERIES AS PER J905 OF THE NCC BCA 2022. THE SPARE CIRCUIT BREAKER, ENERGY MONITORING EQUIPMENT AND DIN RAIL SPACES ARE TO BE LABELLED (RESERVED FOR SOLAR / BATTERIES).

PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 THAT COLLATES THE TIME-OF-USE ENERGY DATA TO A SINGLE INTERFACE WHERE IT CAN BE STORED, ANALYSED AND REVIEWED. SUBMIT DETAILS OF THE ENERGY MONITORING SYSTEM FOR APPROVAL.

PROVIDE AN ELECTRIC VEHICLE CHARGING CONTROL SYSTEM THAT HAS THE ABILITY TO MANAGE AND SCHEDULE CHARGING OF ELECTRIC VEHICLES IN RESPONSE TO TOTAL DEMAND OF THE BUILDING AS PER J9D4 OF THE NCC BCA 2022. THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM IS TO ALSO INDIVIDUALLY CONTROL EACH APARTMENTS EV CHARGER BASED UPON THE BUILDING AND THE APARTMENTS DEMAND. INTERFACE THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM TO DB-E. SUBMIT DETAILS OF THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM FOR APPROVAL.

NOTES

6. POWER DISTRIBUTION CONTINUED.

PROVIDE AN EV CHARGING ISOLATION SYSTEM THAT INCLUDES A MOMENTARY PUSH BUTTON (CIS) LOCATED ADJACENT THE FIP THAT ISOLATES THE POWER TO THE APARTMENT EV CHARGERS AND THE THE POWER TO DB-E VIA CIRCUIT BREAKER SHUNT TRIPS.

PROVIDE EQUIPOTENTIAL BONDING AND EARTHING AROUND THE POOLS AS PER AS3000.

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED MECHANICALLY FIXED TO THE WALL.
- NATIONAL ELECTRICITY MARKET (NEM) COMPLIANT RETAIL METERING FOR EACH APARTMENT AND THE COMMUNALITY SERVICES.
- IP 66 ENCLOSURE AND DOORS.
- CUSTOM COLOUR POWDER COATED ENCLOSURE AND DOORS WITH THE ARCHITECT NOMINATING THE COLOUR.
- POWDER COATED GLOSS WHITE ESCUTCHEONS.
- DOORS ON ALL CUBICLES WITH 3 POINT 92268 KEY LOCKABLE FLUSH HANDLES OTHER THAN THE METER CUBICAL DOOR WHICH IS TO HAVE AN ENERGEX PADLOCK.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- ALL SWITCHGEAR TO BE SCHNEIDER OR NHP/ TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
- ENERGEX PADLOCK ON THE METER CUBICAL.
- TWO ENERGEX PADLOCK KEYS AND TWO 92268 KEYS.

PROVIDE THE DISTRIBUTION BOARDS AS FOLLOWS:

- WALL MOUNTED.
- IP44 FORM 1.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT 92268 KEY LOCKABLE FLUSH HANDLES ON ALL DOORS.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- ALL SWITCHGEAR TO BE SCHNEIDER OR NHP/ TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- 25% SPARE POLES AT PRACTICAL COMPLETION.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

ENSURE ALL THREE PHASE CIRCUITS ARE PROVIDED WITH CORRECT PHASE ROTATION.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT. THE FINAL POSITION OF ALL OUTLETS AND ISOLATORS ARE TO BE CONFIRMED ON SITE BY THE TENANTS REPRESENTATIVE.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- ENERGEX NEGOTIATIONS.
- RETAIL METERING.
- PROPERTY POLE
- CONSUMERS MAINS.
- MAIN SWITCHBOARD.
- SUBMAINS.
- DISTRIBUTION BOARDS.
- EV CHARGING LOAD MONITORING SYSTEM.
- EV CHARGING ISOLATION SYSTEM.
- ENERGY MONITORING SYSTEM.
- PV SYSTEM INCLUDING THE ENERGEX APPLICATION.
- CABLE ACCESS WAYS.
- MASTER BEDROOM ENSUITE FLOOR HEATING SYSTEMS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- EQUIPOTENTIAL BONDING AND EARTHING AROUND THE POOLS.
- THERMOSCAN THE MSB AND ALL DISTRIBUTION BOARDS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A CHART RECORDING OF THE MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN CHART RECORDING AND FOR APPROVAL. PROVIDE A 33KW SOLAR PHOTOVOLTAIC SYSTEM IN ACCORDANCE WITH AS 5033 WITH THE PV INSTALLATION UNDERTAKEN BY AN ACCREDITED INSTALLER MEMBER OF THE CLEAN ENERGY COUNCIL.

7. LIGHTING

ALL OF THE LIGHT FITTINGS, LAMPS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

ALL LIGHT SOURCES ARE TO BE SOLID STATE WITH AN AVERAGE LIFE OF 50,000 HOURS AND A MANUFACTURERS WARRANTY OF 5 YEARS. THE FRONT OF HOUSE LIGHTING IS TO BE 3,000k AND THE BACK OF HOUSE LIGHTING 4,000K. COORDINATE THE FITTING COLOURS WITH THE ARCHITECTURE / INTERIORS.

DO NOT SUPPLY MORE THAN 25 DRIVERS FROM A SINGLE CIRCUIT.

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM THROUGHOUT THE COMMUNAL AREAS THAT COMPLIES WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS MAINTAINED WITH THE LAMP PERMANENTLY ON SUPPLIED VIA AN UNSWITCHED ACTIVE MAINS SUPPLY WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE, THE LAMP IS TO REMAIN ON SUPPLIED BY THE EMERGENCY PACK. SINGLE LAMP MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ALWAYS ON.)

INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS NON-MAINTAINED AS FOLLOWS:

- IF THE FITTING IS NOT BEING SWITCHED, THE LAMP IS TO REMAIN OFF WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON SUPPLIED BY THE EMERGENCY PACK. UNSWITCHED SINGLE LAMP NON-MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ON ONLY WHEN THE MAINS SUPPLY IS NOT AVAILABLE.)
- IF THE FITTING IS BEING SWITCHED, THE LAMP IS TO BE SUPPLIED AND CONTROLLED WITH THE LOCAL GENERAL AREA LIGHTING WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON, SUPPLIED BY THE EMERGENCY PACK. (THE LAMP IS ON WHEN TURNED ON WITH THE LOCAL GENERAL LIGHTING OR THE MAIN SUPPLY IS NOT AVAILABLE.)

INSTALL EMERGENCY LIGHTS SUCH THAT THE STATUS INDICATOR L.E.D. IS CLEARLY VISIBLE AND THE TEST BUTTONS ARE READILY ACCESSIBLE. LABEL EACH CIRCUIT BREAKER WHICH CONTROLS THE UNSWITCHED ACTIVE TO EXIT LIGHTS WITH A LABEL FIXED ADJACENT; ENGRAVED PLASTIC LAMINATE, GREEN BACKGROUND WITH WHITE CHARACTERS: -

WARNING  
INTERRUPTING SUPPLY WILL DISCHARGE  
EMERGENCY LIGHTING BATTERIES

PROVIDE WRITTEN EVIDENCE OF THE INITIAL COMMISSIONING AND TESTING AND TESTING FOR THE DURATION OF THE MAINTENANCE PERIOD IN ACCORDANCE WITH AS 2293.2.

THIS EVIDENCE IS TO BE IN THE FORM OF A LOG BOOK SIMILAR TO THE GENERAL LIGHTING SERVICE PTY LTD "EMERGENCY LIGHTING MAINTENANCE LOG BOOK AND MANUAL" WHICH IS TO BE PROVIDED BY THE ELECTRICAL SUB-CONTRACTOR AND HAVE ALL ENTRIES FULLY COMPLETED AND BE PRESENTED FOR INSPECTION AT PRACTICAL COMPLETION. THE LOG BOOK IS TO BE RETAINED BY THE ELECTRICAL SUB-CONTRACTOR FOR THE DURATION OF THE MAINTENANCE PERIOD, AND THE SIX MONTHLY TEST AND MAINTENANCE RESULTS ENTERED. THE LOG BOOK IS TO BE PRESENTED FOR APPROVAL AT FINAL COMPLETION (EXPIRY OF THE MAINTENANCE PERIOD) AND WILL BE FORWARDED TO THE OPERATOR FOR THEIR USE.

PROVIDE MAINTENANCE OF THE EMERGENCY AND EXIT LIGHTING INSTALLATION INCLUDING RECORDS IN ACCORDANCE WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. PROVIDE THE EMERGENCY LIGHTING SYSTEM WITH A SUPPLY SENSING AND TESTING FACILITY MOUNTED IN DB-L IN ACCORDANCE WITH AS 2293.1.

NOTES

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW NBN SERVICE TO THE SITE WITH A COMMUNAL NBN NTD AND A NBN NTD IN EACH APARTMENT. ARRANGE FOR THE NBN SERVICES TO BE INSTALLED INCLUDING ALL CABLE ACCESS WAYS AND DOCUMENTATION IN ACCORDANCE WITH THE NBN REQUIREMENTS.

PROVIDE THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT AS A COMMSCOPE OR MOLEX CAT 6 INSTALLATION WITH A 15 YEAR MANUFACTURERS PERFORMANCE WARRANTY. THE COMMUNAL COMMUNICATIONS CABLING IS TO BE RUN TO PATCH PANELS WITHIN RACK CR-A WHICH IS TO ALSO HOUSE CCTV PATCH PANELS AND CCTV ACTIVE EQUIPMENT.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NBN APPLICATION AND LEADIN SERVICES.
- NBN CABLE ACCESS WAYS INCLUDING THE PCD AND NTDs.
- COMMUNICATIONS OUTLET HUBS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- COMMUNICATIONS RACK CR-A PLUS PATCH PANELS.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

9. ACCESS CONTROL.

THE ACCESS CONTROL COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A INNER RANGE INTEGRITY ACCESS CONTROL SYSTEM TO CONTROL THE FOLLOWING ACCESS POINTS:

- LIFT.
- APARTMENT ENTRY DOORS.
- BASEMENT LOBBY ENTRY DOOR.
- BASEMENT ROLLER SHUTTER DOOR.

CONFIGURE THE ACCESS CONTROL SYSTEM TO OPERATE AS DIRECTED BY THE PROJECT MANAGER. PROVIDE FACILITY TO ALLOW MANAGEMENT STAFF TO ENCODE AND MANAGE THE RSD FOBS AND PROXIMITY TAGS.

THE ACCESS CONTROL COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- CONTROLLERS, EXPANSION PANELS, HOUSINGS AND POWER SUPPLIES.
- A CABLED INTERNET CONNECTION ALLOWING REMOTE CONTROL VIA A SMART PHONE APP.
- CARD READERS.
- 25 PROXIMITY TAGS.
- 25 ROLLER SHUTTER DOOR FOBS.
- ELECTRIC STRIKES.
- LIFT INTERFACE.
- ROLLER SHUTTER DOOR INTERFACE.
- VIDEO INTERCOM SYSTEM INTERFACE.
- SOFTWARE AND ALL NECESSARY LICENCES.
- FOB / PROXIMITY TAG ENCODING FACILITY.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

SUBMIT DETAILS OF THE PROPOSED ACCESS CONTROL SYSTEM WITH THE TENDER.

10. VIDEO INTERCOM SYSTEM.

PROVIDE AN IP COLOUR VIDEO INTERCOM SYSTEM TO ALLOW COMMUNICATION VIA A MASTER CALL STATION TO A SLAVE CALL STATION WITHIN A SELECTED APARTMENT. INTERFACE THE VIDEO INTERCOM SYSTEM TO THE ACCESS CONTROL SYSTEM SUCH THAT ACCESS CAN BE GRANTED TO THE APARTMENT VIA THE ACCESS ROUTE FROM THE ASSOCIATED CALL STATION.

PROVIDE A FUNCTIONAL DESCRIPTION OF THE OPERATION OF THE VIDEO INTERCOM SYSTEM AND THE ACCESS CONTROL SYSTEM FOR APPROVAL. CONFIGURE THE VIDEO INTERCOM SYSTEM TO OPERATE AS PER THE APPROVED FUNCTION DESCRIPTION.

THE VIDEO INTERCOM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- MASTER AND SLAVE CONTROLLERS, HOUSINGS AND POWER SUPPLIES.
- A CABLED INTERNET CONNECTION ALLOWING REMOTE CONTROL VIA A SMART PHONE APP.
- ACCESS CONTROL SYSTEM INTERFACE.
- SOFTWARE AND ALL NECESSARY LICENCES.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

SUBMIT DETAILS OF THE PROPOSED VIDEO INTERCOM SYSTEM WITH THE TENDER.

11. CCTV SYSTEM.

THE CCTV SYSTEM COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A IP BASED COLOUR POE CCTV CAMERA SYSTEM WITH A NVR LOCATED IN CR-A. ENSURE THE CCTV SYSTEM IS NOT SUBJECT TO ANY LICENSING AGREEMENTS.

THE NVR TO TO CONTAIN SUFFICIENT SOLID STATE HARD DRIVE TO RECORD IN EXCESS OF THE 30 DAYS OF COVERAGE. PROVIDE NVR WITH A CABLED INTERNET CONNECTION TO ALLOW THE FOOTAGE TO BE REMOTELY ACCESSED VIA A DESKTOP BROWSER OR SMART PHONE APP.

THE CCTV CAT 6 CABLING IS TO BE OF THE SAME SPECIFICATION AS THE COMMUNICATIONS CABLE RUN IN A DIFFERENT COLOUR TO DEDICATED CCTV PATCH PANELS IN CR-A.

THE CCTV CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- CAMERAS INCLUDING HOUSINGS.
- CABLING.
- NETWORK VIDEO RECORDER.
- PATCH PANELS.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

SUBMIT DETAILS OF THE PROPOSED ACCESS CONTROL SYSTEM WITH THE TENDER.

11. MATV SYSTEM.

THE MATV COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A MASTER ANTENNA SYSTEM TO RECEIVE AND DISTRIBUTE FOXTEL CABLE TV SERVICES, FOXTEL SATELLITE SERVICES AND LOCALLY AVAILABLE FREE TO AIR DIGITAL SERVICES. ANTENNAS ARE TO BE ROOF MOUNTED AND CONNECTED TO THE MATV HEADEND / DISTRIBUTION EQUIPMENT LOCATED IN THE LEVEL 1 RISER CUPBOARD. THE MATV COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- ANTENNA.
- FIVE WIRE FOXTEL SYSTEM INCLUDING ALL FOXTEL APPROVALS.
- DIGITAL FREE TO AIR DISTRIBUTION SYSTEM.
- UNDERGROUND CONNECTION TO THE EXISTING FOXTEL CABLE TV NETWORK.
- HEADEND / DISTRIBUTION EQUIPMENT.
- OUTLETS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

12. FIRE ALARM SYSTEM.

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES MAINS POWERED INTERCONNECTED SMOKE ALARMS WITHIN THE APARTMENTS AND AN AS1670.1 ALARM SYSTEM IN ACCORDANCE WITH THE FIRE ENGINEERING REPORT. THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- SMOKE ALARMS.
- SMOKE ALARM TEST FACILITY.
- FIRE INDICATOR PANEL INCORPORATING AN FDCIE AND EWCIE.
- FLOW SWITCH AND VALVE MONITORING.
- HORNS AND SPEAKERS.
- VISUAL ALARM DEVICE.
- LIFT SHAFT ASPIRATING SMOKE DETECTION.
- CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

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ACN 092 710 793

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ELECTRICAL DESIGN GROUP

PROJECT:

TI-TREE COLLECTIVE

SITE ADDRESS:

294-298 GIVEN TERRACE, PADDINGTON  
BRISBANE, QUEENSLAND

SCALE: SHEET SIZE:

NOT TO SCALE AT A1

DRAWING TITLE:

ELECTRICAL SERVICES  
NOTES

PROJECT NO: DRAWING NO: REVISION:

C3599a E02 A

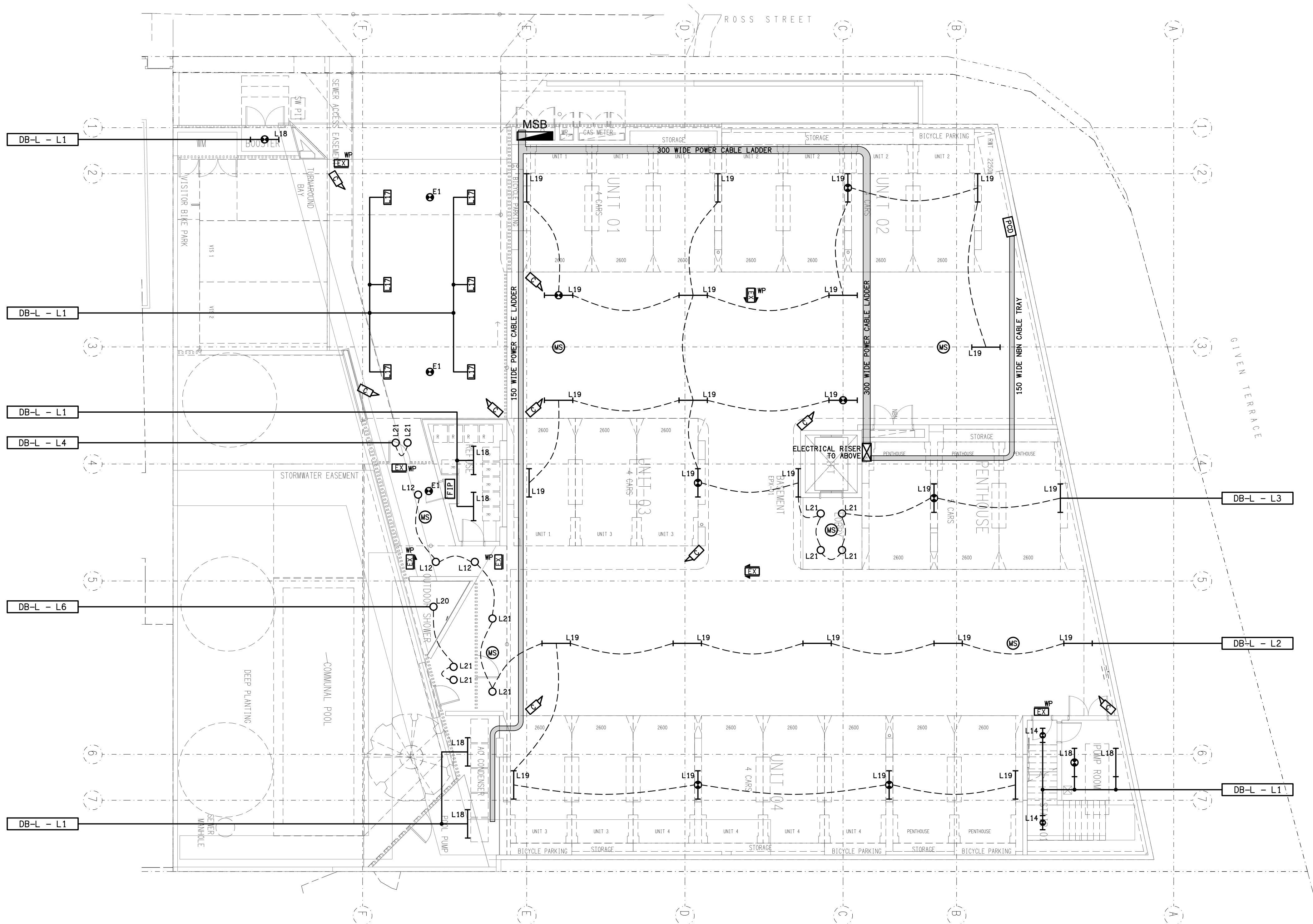
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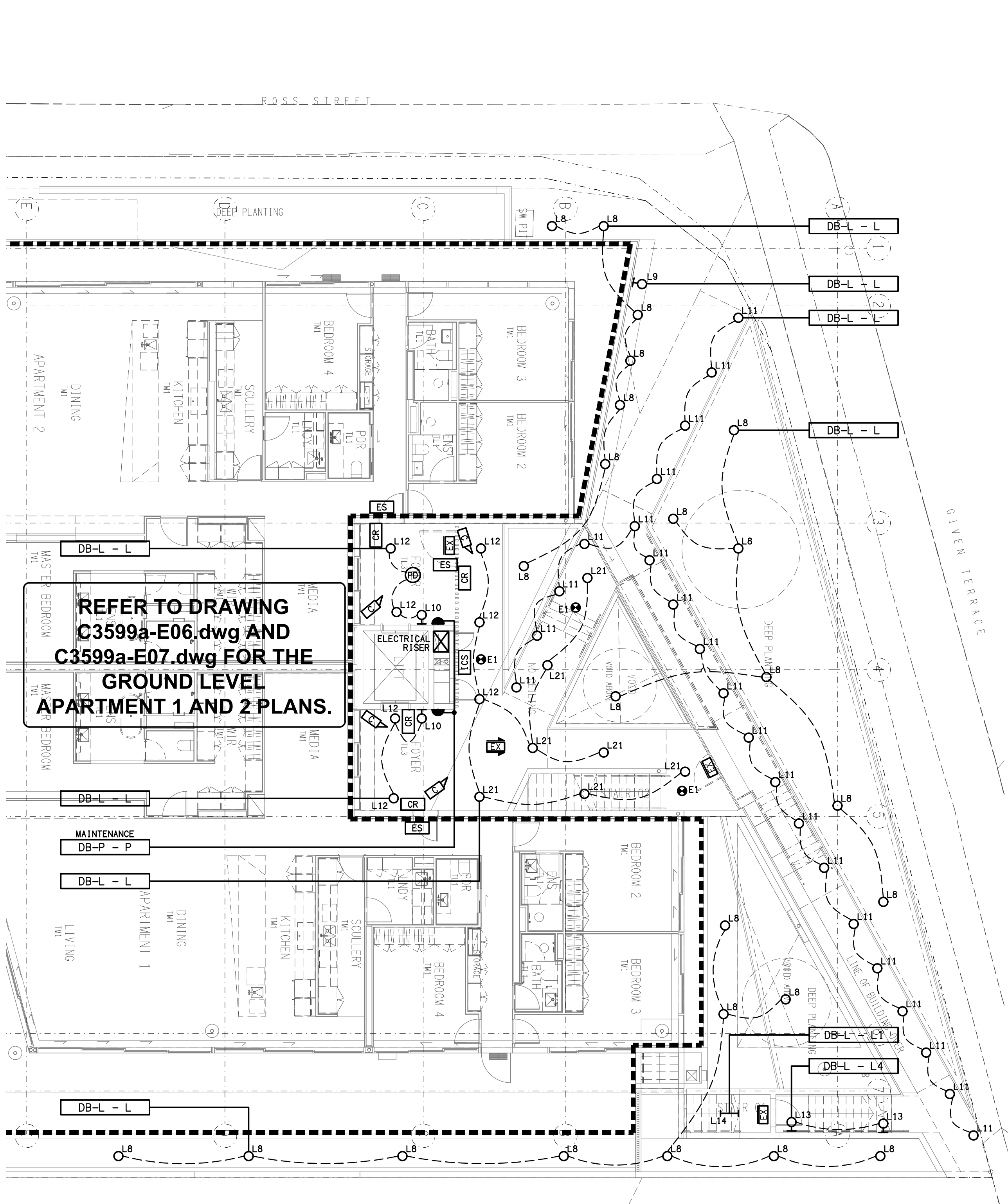
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**ELECTRICAL SERVICES**  
**BASEMENT LEVEL**  
**REFLECTED CEILING PLAN**

PROJECT NO: DRAWING NO: REVISION:

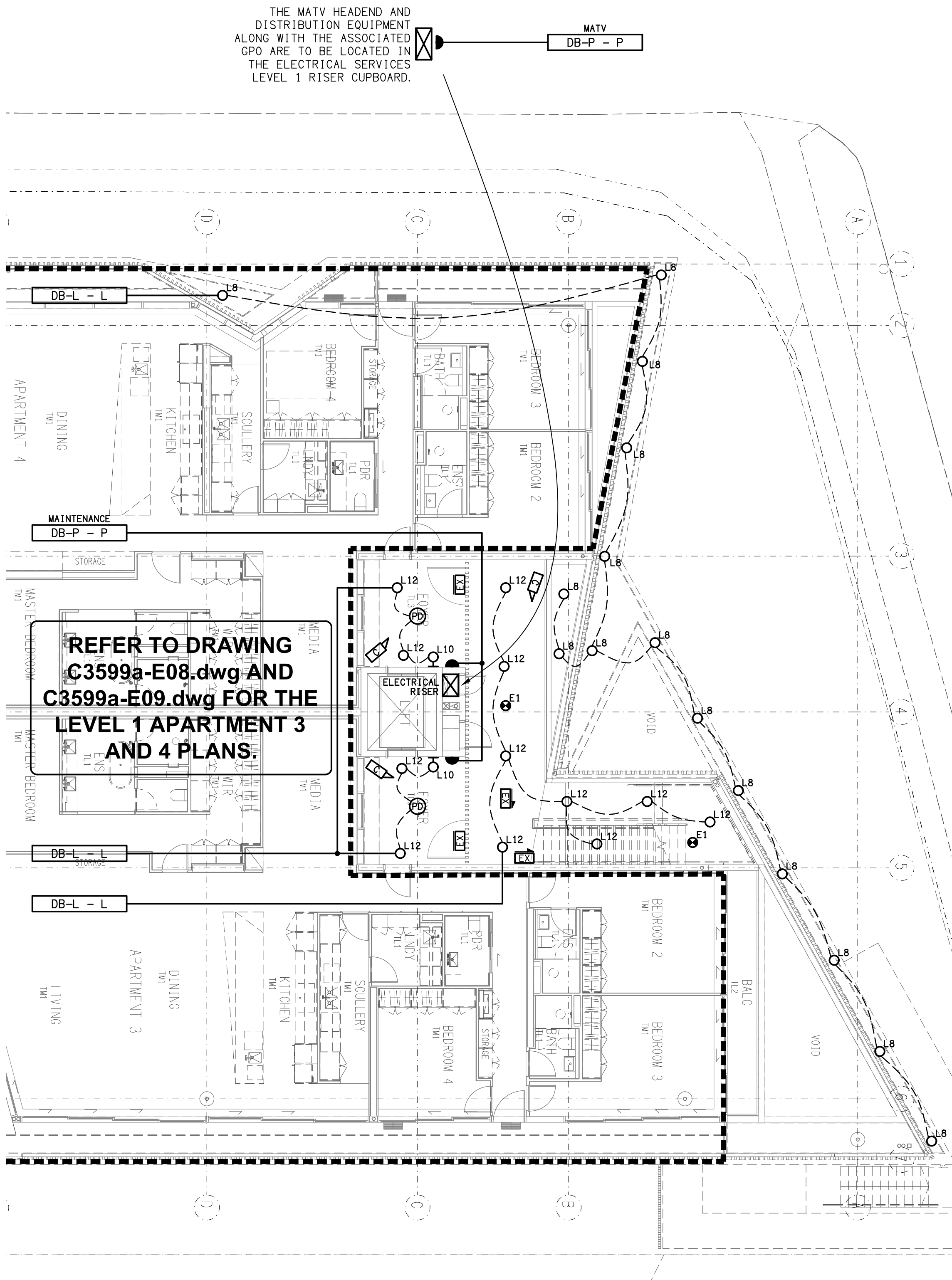
**C3599a E04 A**





REFER TO DRAWING  
C3599a-E06.dwg AND  
C3599a-E07.dwg FOR THE  
GROUND LEVEL  
APARTMENT 1 AND 2 PLANS.

**GROUND LEVEL**  
COMMUNAL SERVICES PLAN  
SCALE 1: 100



REFER TO DRAWING  
C3599a-E08.dwg AND  
C3599a-E09.dwg FOR THE  
LEVEL 1 APARTMENT 3  
AND 4 PLANS.

**LEVEL 1**  
COMMUNAL SERVICES PLAN  
SCALE 1: 100

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SCALE: SHEET SIZE:

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DRAWING TITLE:

**ELECTRICAL SERVICES**  
GROUND & LEVEL 1  
COMMUNAL SERVICES

PROJECT NO: DRAWING NO: REVISION:

**C3599a E05 A**



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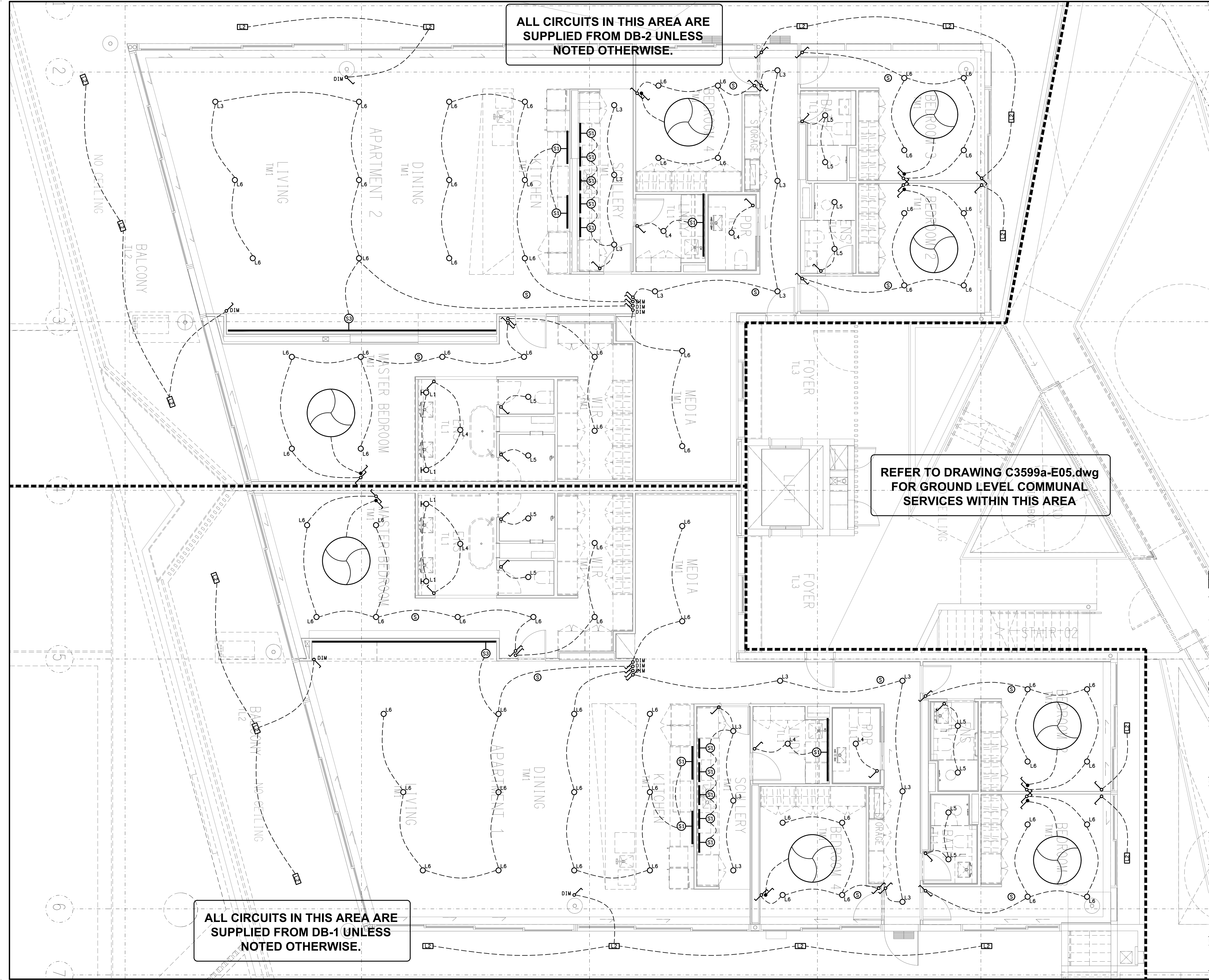
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SCALE: 1:50 SHEET SIZE: AT A1

DRAWING TITLE:  
**ELECTRICAL SERVICES  
GROUND LEVEL  
FLOOR PLAN**

PROJECT NO: DRAWING NO: C3599a E06 REVISION: A



ALL CIRCUITS IN THIS AREA ARE  
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REFER TO DRAWING C3599a-E05.dwg  
FOR GROUND LEVEL COMMUNAL  
SERVICES WITHIN THIS AREA

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SCALE: 1:50 SHEET SIZE: A1  
AT

DRAWING TITLE:

**ELECTRICAL SERVICES  
GROUND LEVEL  
REFLECTED CEILING PLAN**

PROJECT NO: DRAWING NO: REVISION:  
**C3599a E07 A**

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PROJECT:  
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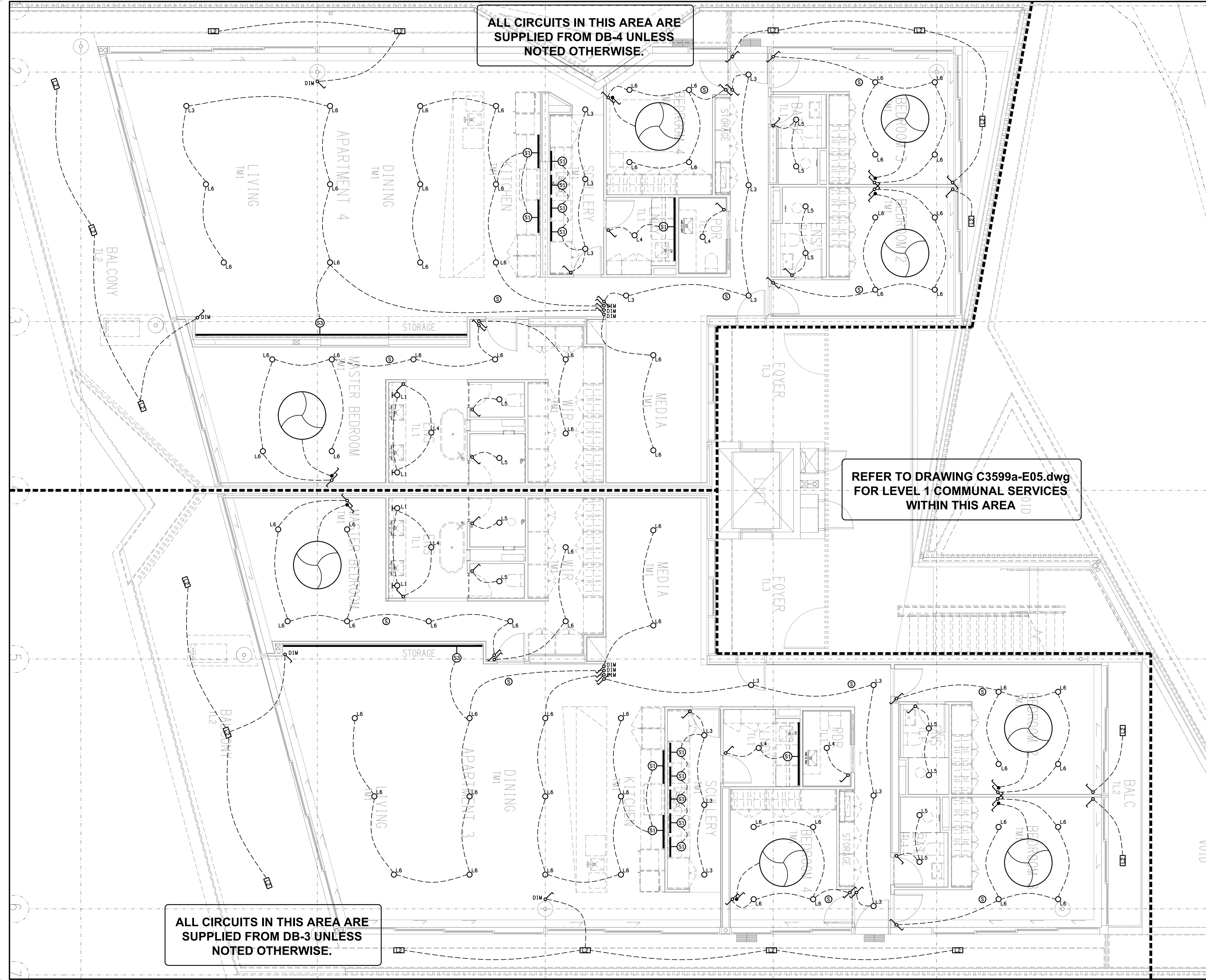
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SCALE: 1:50 SHEET SIZE: A1

DRAWING TITLE:  
**ELECTRICAL SERVICES  
LEVEL 1  
FLOOR PLAN**

PROJECT NO: DRAWING NO: REVISION:  
**C3599a E08 A**





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DRAWING TITLE:  
**ELECTRICAL SERVICES  
LEVEL 1  
REFLECTED CEILING PLAN**

PROJECT NO: DRAWING NO: REVISION:  
**C3599a E09 A**

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DRAWING TITLE:

**ELECTRICAL SERVICES**  
LEVEL 2  
FLOOR PLAN

PROJECT NO: DRAWING NO: REVISION:

**C3599a E10 A**

ALL CIRCUITS ON THIS DRAWING  
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THESE THREE POOL OUTLETS  
ARE TO BE LOCATED UNDER  
THE POOL DECK.

NBN P23 DROP CONDUIT  
WITHIN LEVEL 2 FLOOR  
SLAB.



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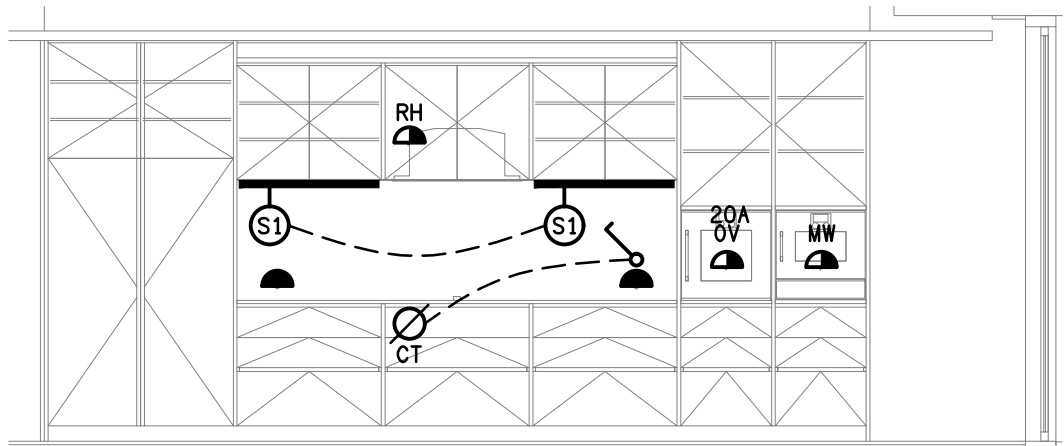
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**ELECTRICAL SERVICES**  
**LEVEL 2**  
**REFLECTED CEILING PLAN**

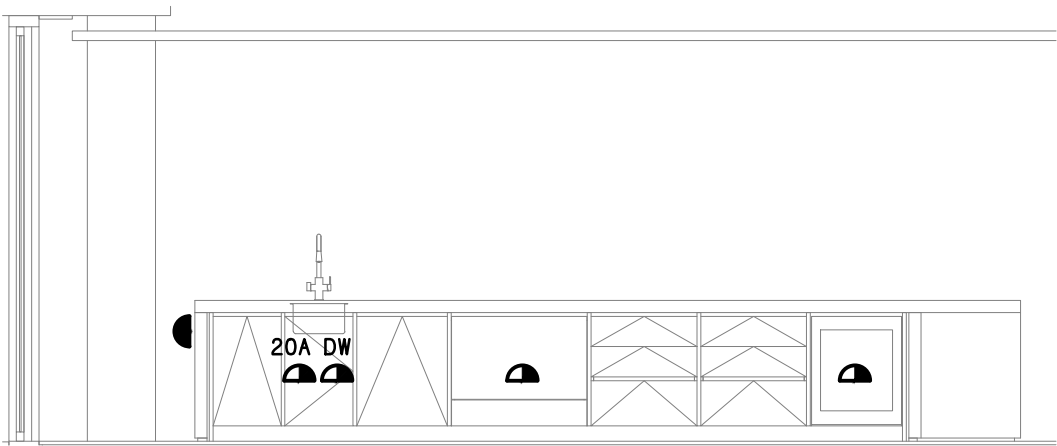
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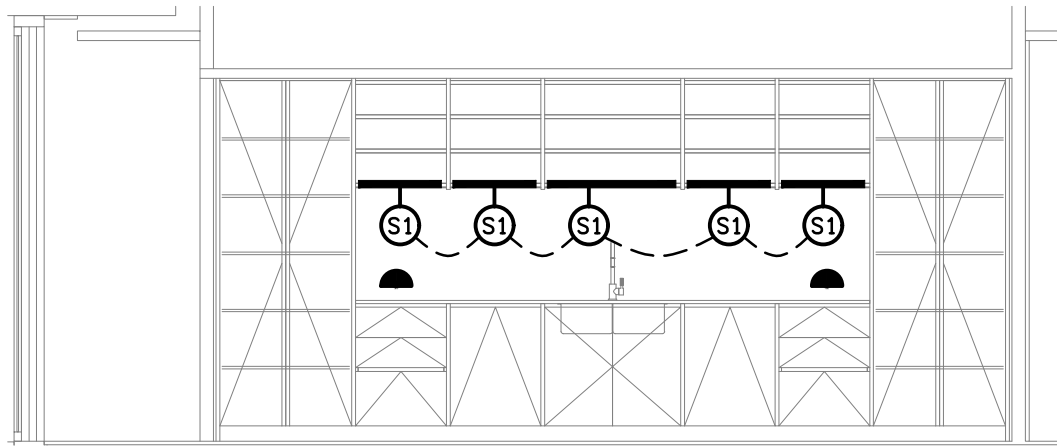
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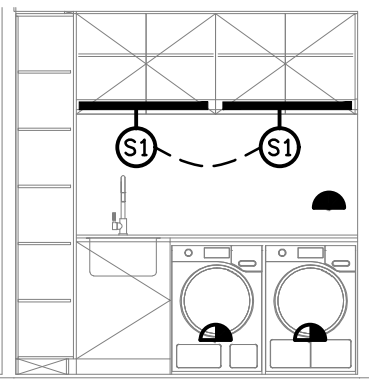
**DETAIL A**  
TYPICAL KITCHEN COOKING BENCH ELEVATION  
SCALE 1: 50



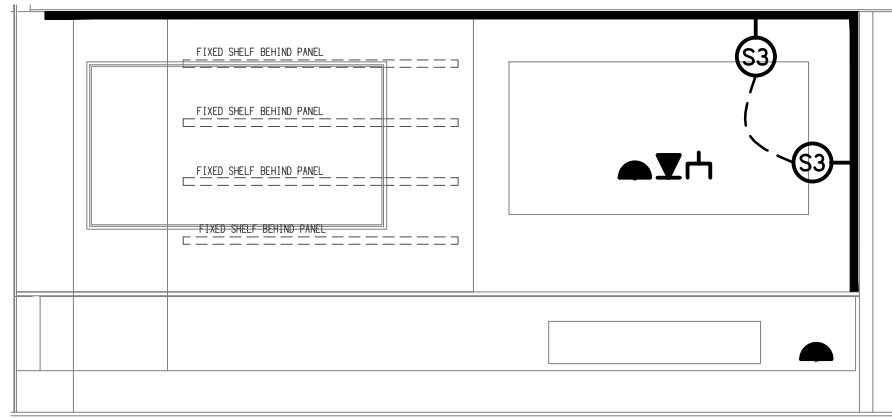
**DETAIL B**  
TYPICAL KITCHEN ISLAND BENCH ELEVATION  
SCALE 1: 50



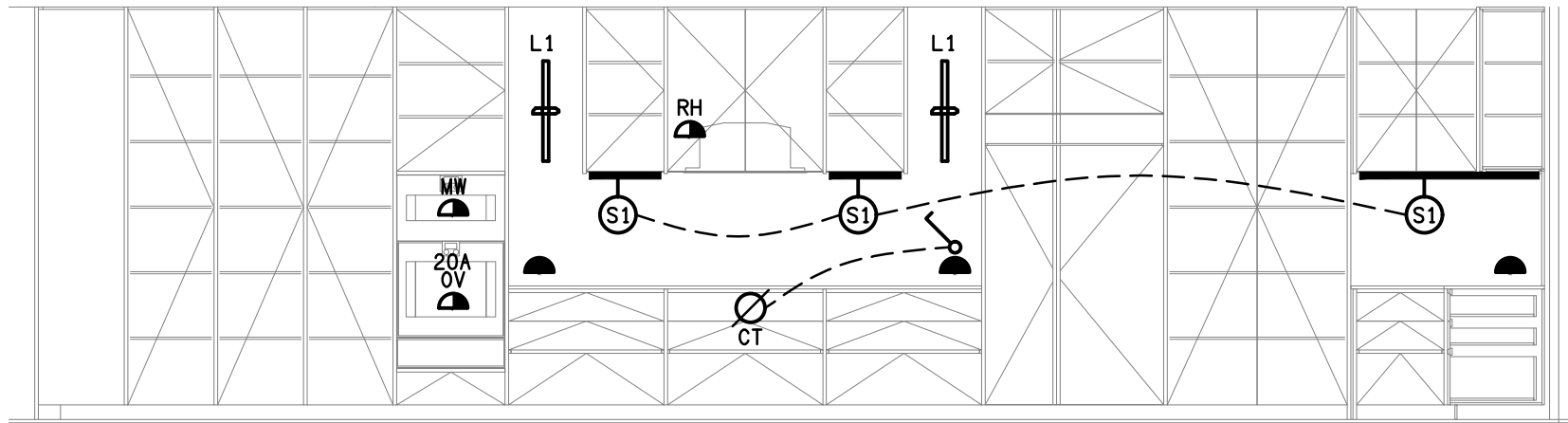
**DETAIL C**  
TYPICAL KITCHEN WASH-UP BENCH ELEVATION  
SCALE 1: 50



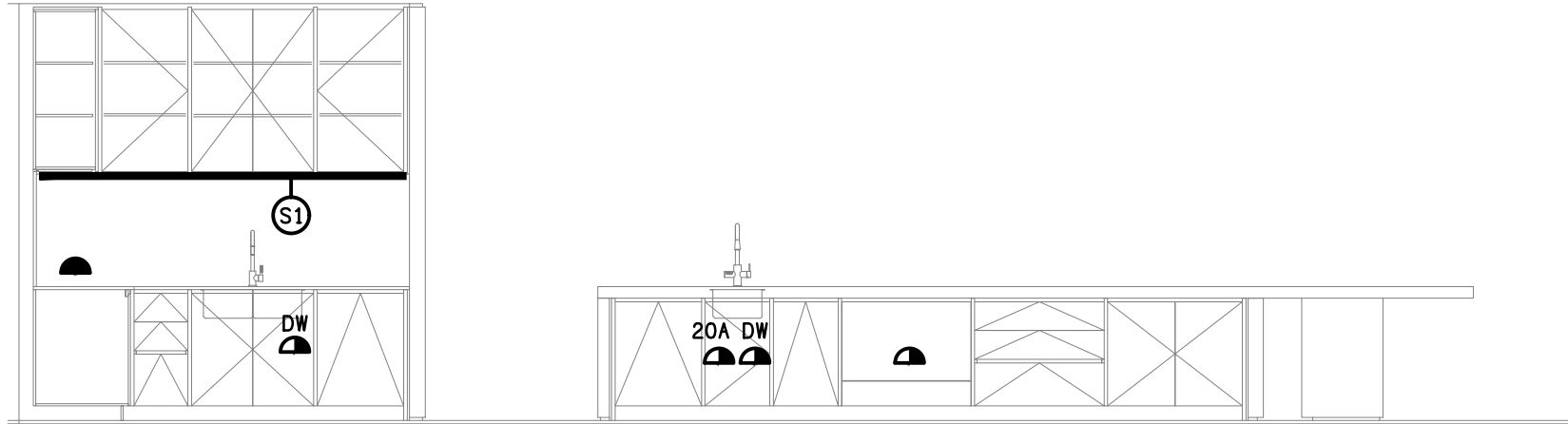
**DETAIL D**  
TYPICAL LAUNDRY BENCH ELEVATION  
SCALE 1: 50



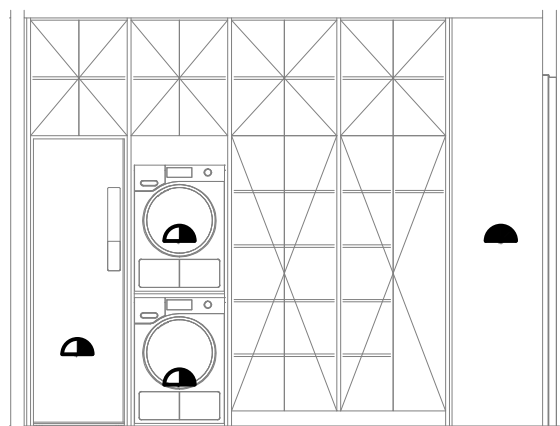
**DETAIL E**  
TYPICAL TV UNIT ELEVATION  
SCALE 1: 50



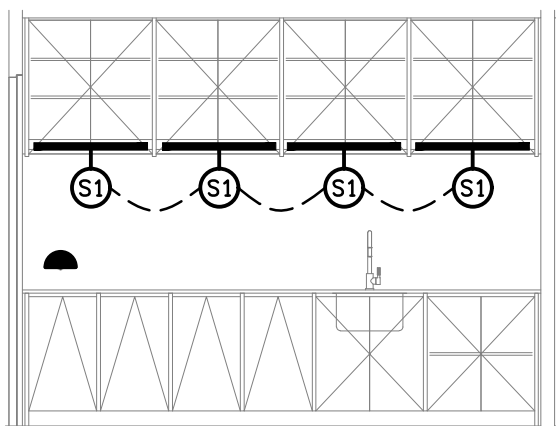
**DETAIL F**  
PENTHOUSE COOKING BENCH ELEVATION  
SCALE 1: 50



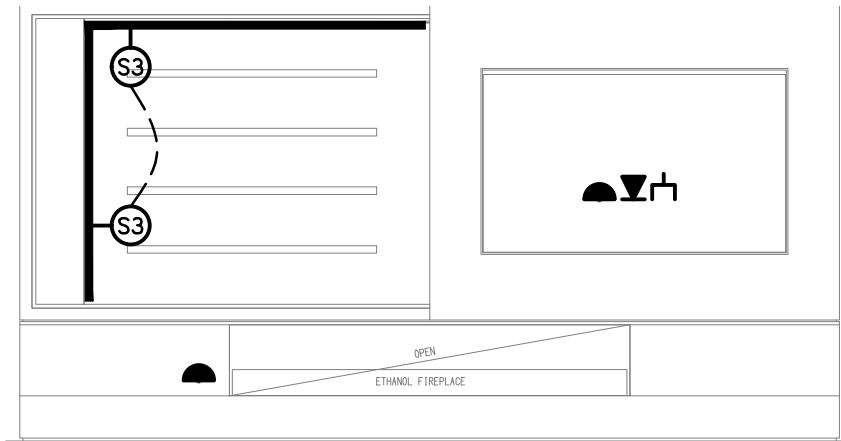
**DETAIL G**  
PENTHOUSE WASH-UP BENCH ELEVATION  
SCALE 1: 50



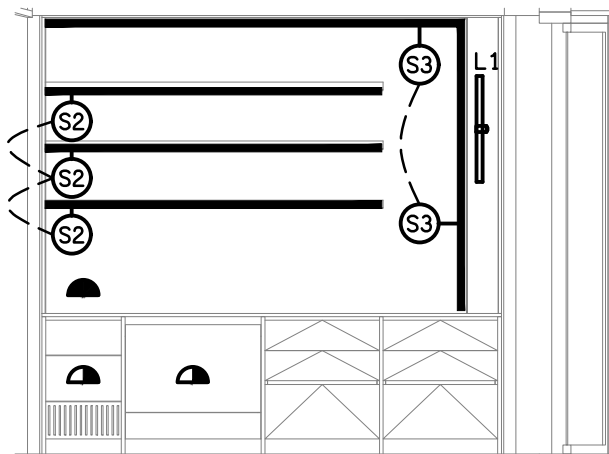
**DETAIL H**  
PENTHOUSE LAUNDRY BENCH 1 ELEVATION  
SCALE 1: 50



**DETAIL J**  
PENTHOUSE LAUNDRY BENCH 2 ELEVATION  
SCALE 1: 50



**DETAIL K**  
PENTHOUSE TV UNIT ELEVATION  
SCALE 1: 50



**DETAIL L**  
PENTHOUSE BAR BENCH ELEVATION  
SCALE 1: 50

A	PRELIMINARY	14/10/2025
REV:	DESCRIPTION:	DATE:

**ELECTRICAL DESIGN GROUP**  
ELECTRICAL BUILDING SERVICES CONSULTANTS

BRISBANE: P.O. Box 15, Sherwood Qld 4075  
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ELECTRICAL DESIGN GROUP BRISBANE PTY LTD  
ACN 092 710 793

TRADING AS:  
ELECTRICAL DESIGN GROUP

PROJECT:

TI-TREE COLLECTIVE

SITE ADDRESS:

294-298 GIVEN TERRACE, PADDINGTON  
BRISBANE, QUEENSLAND

SCALE: SHEET SIZE:

1:50 AT A1

DRAWING TITLE:

**ELECTRICAL SERVICES**  
TYPICAL DETAIL  
ELEVATIONS

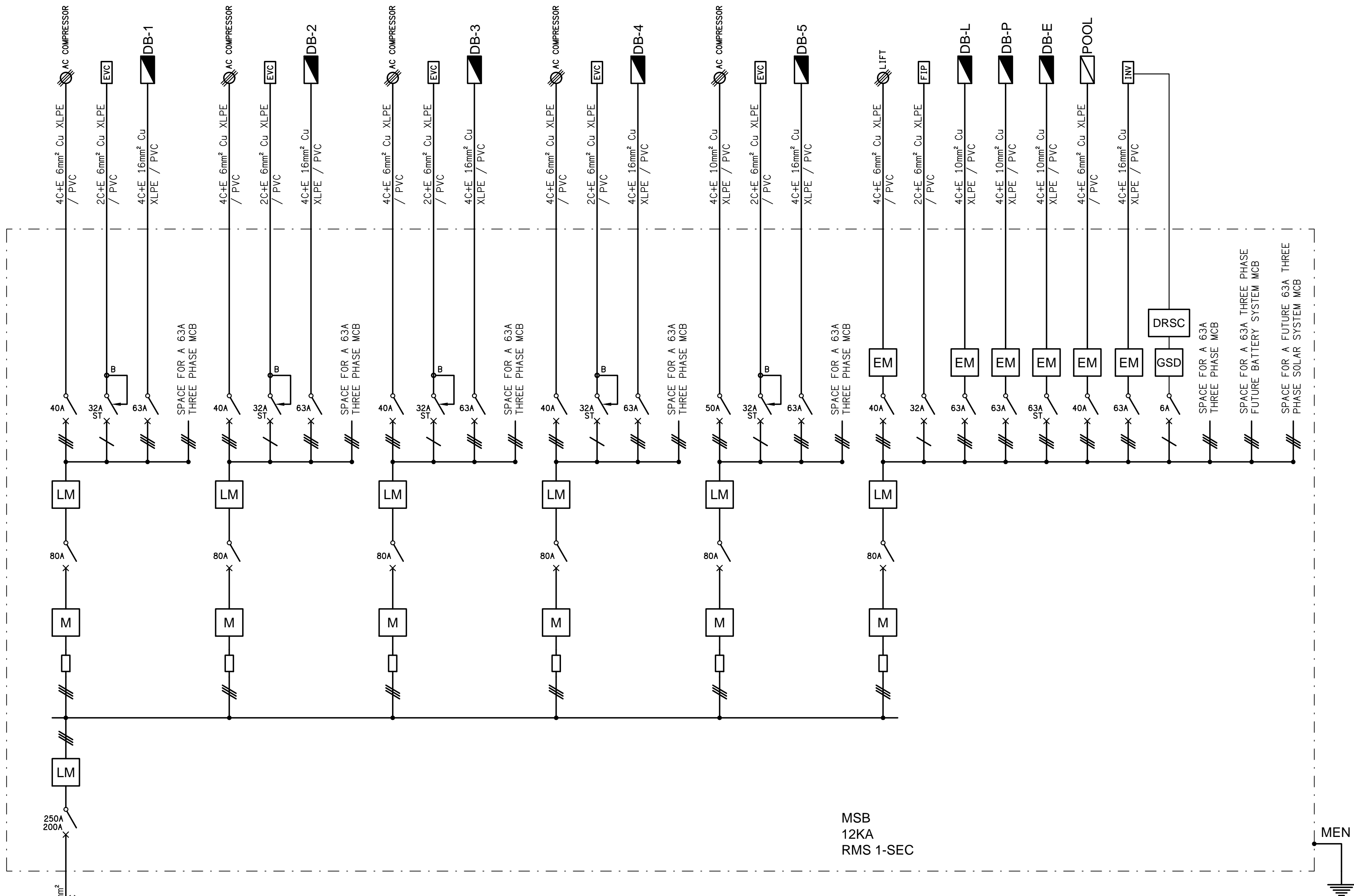
PROJECT NO: DRAWING NO: REVISION:

**C3599a E12 A**

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USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.

ALL DIMENSIONS TO BE VERIFIED ONSITE.



ENERGEX  
CONNECTION

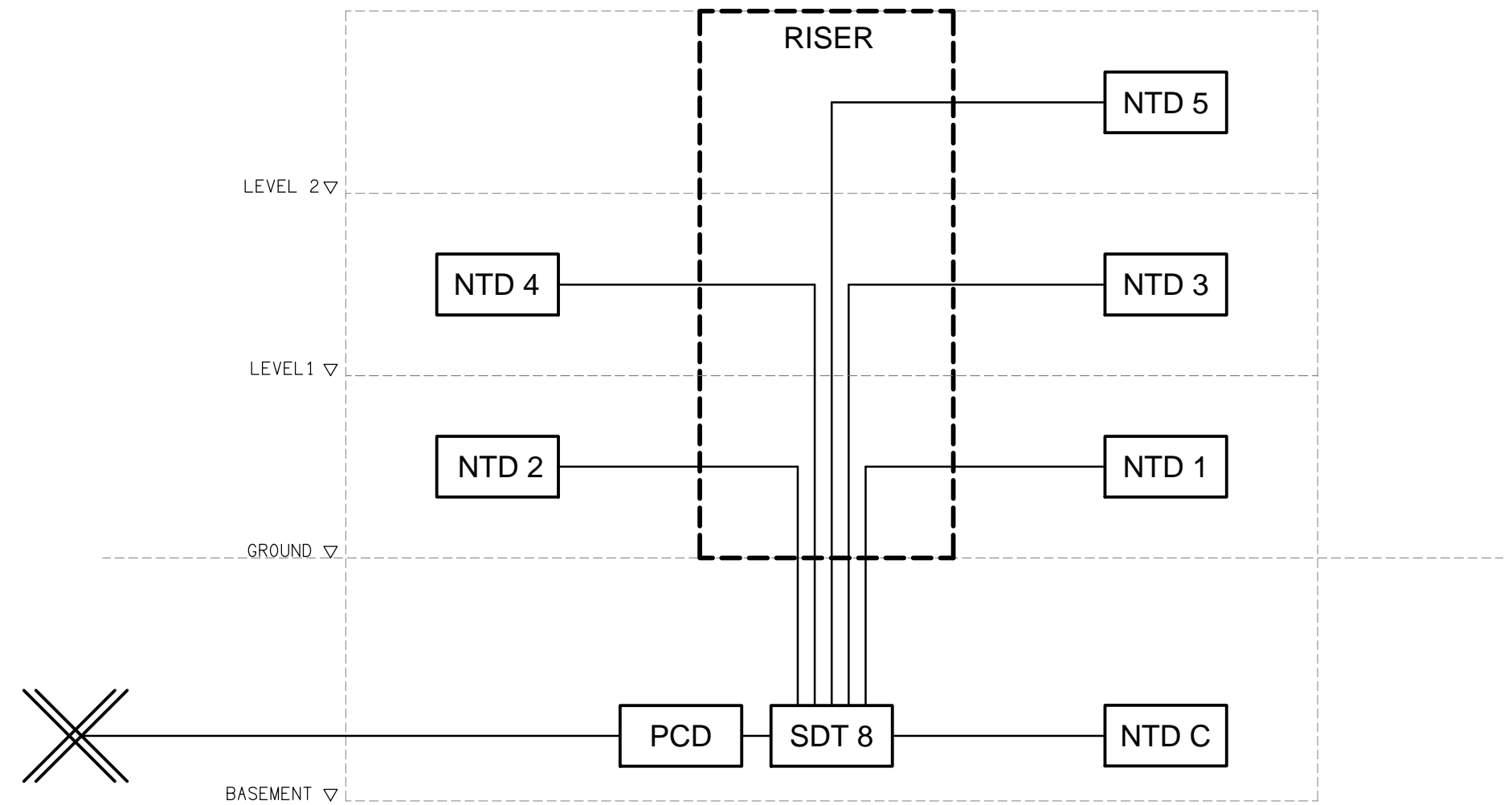
**SCHEMATIC**  
POWER CONFIGURATION  
NOT TO SCALE

#### LEGEND

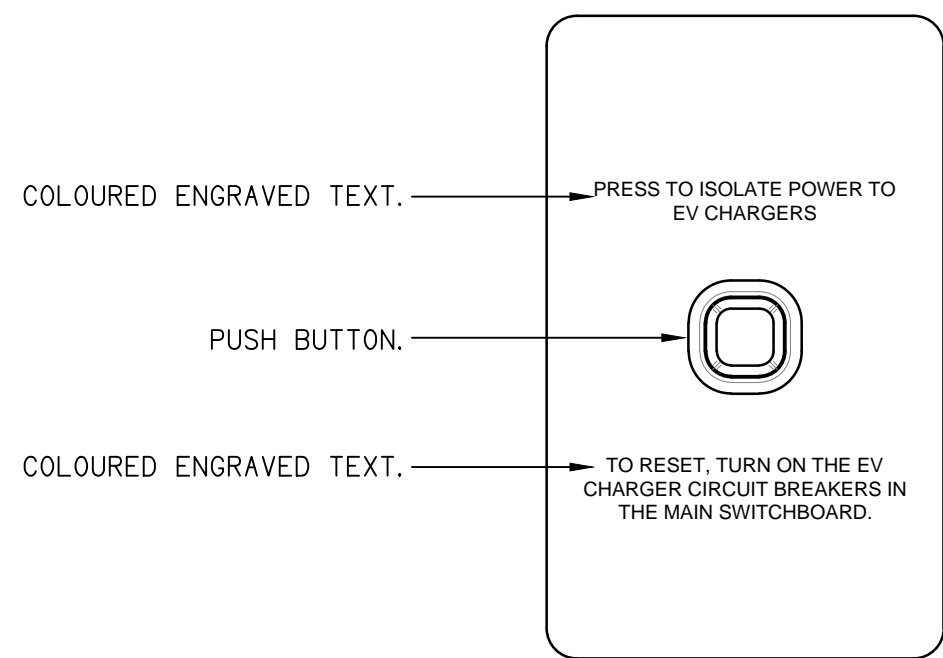
- ELECTRICAL SERVICES SWITCHBOARD.
- SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
- LOAD MANAGEMENT MONITOR.
- NCC PART J9 D3 ENERGY METER.
- QECM V4 COMPLIANT GENERATION SIGNALING DEVICE.
- QECM V4 COMPLIANT DEMAND RESPONSE SITE CONTROLLER.

#### LEGEND

- QECM V4 WHOLE CURRENT FUSED LINK.
- SINGLE PHASE.
- THREE PHASE.
- QECM V4 WHOLE CURRNET THREE PHASE METER.
- CIRCUIT BREAKER. ST DESIGNATES SHUNT TRIP.
- LOAD BREAK NON AUTO ISOLATOR.
- TYPE B RCD.



**SCHEMATIC**  
NBN PATHWAYS  
NOT TO SCALE



**DETAIL**  
ELECTRIC VEHICLE CHARGING ISOLATION SWITCH (CIS)  
NOT TO SCALE

A	PRELIMINARY	14/10/2025
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GROUP

PROJECT:

**TI-TREE COLLECTIVE**

SITE ADDRESS:

294-298 GIVEN TERRACE, PADDINGTON  
BRISBANE, QUEENSLAND

SCALE: SHEET SIZE:

NOT TO SCALE AT A1

DRAWING TITLE:

**ELECTRICAL SERVICES  
SCHEMATICS**

PROJECT NO: DRAWING NO: REVISION:

**C3599a E13 A**