



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

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## ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION B - 02 OCTOBER 2024

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	10	02								
	MONTH	09	10								
	YEAR	24	24								
REASON FOR ISSUE				P	N						
A = APPROVAL				C = CONSTRUCTION				N = COORDINATION			
				P = PRELIMINARY				T = TENDER			

DISTRIBUTION				NUMBER OF COPIES							
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DOCUMENTS		REVISION									
C3234a-E01.dwg	LEGEND & DETAILS	A	B								
C3234a-E02.dwg	NOTES	A	B								
C3234a-E03.dwg	SITE PLAN	A	B								
C3234a-E04.dwg	LEVEL 0 CAR PARK PLAN	A	B								
C3234a-E05.dwg	LEVEL 1 CAR PARK PLAN	A	B								
C3234a-E06.dwg	LEVEL 2 CAR PARK PLAN	A	B								
C3234a-E07.dwg	LEVEL 0 FLOOR PLAN	A	B								
C3234a-E08.dwg	LEVEL 1 FLOOR PLAN	A	B								
C3234a-E09.dwg	LEVEL 2 FLOOR PLAN	A	B								
C3234a-E10.dwg	LEVEL 0 REFLECTED CEILING PLAN	A	B								
C3234a-E11.dwg	LEVEL 1 REFLECTED CEILING PLAN	A	B								
C3234a-E12.dwg	LEVEL 2 REFLECTED CEILING PLAN - LIGHTING	A	B								
C3234a-E13.dwg	LEVEL 2 REFLECTED CEILING PLAN - NON LIGHTING	A	B								
C3234a-E14.dwg	ROOF LEVEL PLAN	A	B								
C3234a-E15.dwg	SCHEMATICS	A	B								
C3234a-0001.xls	CONTRACT DOCUMENT SCHEDULE	A	B								
C3234a-0002.xls	EQUIPMENT SCHEDULE		A								
C3234a-0005.xls	DISTRIBUTION BOARD DB-A SCHEDULE		A								
C3234a-0006.xls	DISTRIBUTION BOARD DB-B SCHEDULE		A								
C3234a-0007.xls	DISTRIBUTION BOARD DB-C SCHEDULE		A								
C3234a-0008.xls	DISTRIBUTION BOARD DB-D SCHEDULE		A								
C3234a-0009.xls	DISTRIBUTION BOARD DB-E SCHEDULE		A								
C3234a-0010.xls	DISTRIBUTION BOARD DB-R SCHEDULE		A								
C3234a-0011.xls	LIGHTING CONTROL SCHEDULE		A								
C3234a-0001.doc	ELECTRICAL SERVICES SPECIFICATION										
C3234a-0001.zip	FITTING & OUTLET DATASHEETS										



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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 02 OCTOBER 2024

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK  
[www.edg.net.au/Links/Lighting.htm](http://www.edg.net.au/Links/Lighting.htm)

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND AN UNSWITCHED AS2293 NON MAINTAINED EMERGENCY PACK CONFIGURED TO ONLY OPERATE UPON MAINS FAILURE	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W	A
L2	180W 5000K LED	SURFACE MOUNTED IP 65 CARPARK ENTRY LIGHT C/W INTEGRAL DALI DIMMABLE DRIVER AND ILLUMINATION LEVEL / MOVEMENT SENSOR. PROVIDE THE EXTERNAL CARPARK INSTALLATION WITH AN enLIGHTEN CECS CONTROLLER.	BLACK	EQUAL TO enLIGHTEN TAURO BLACK TB180D-57-S1-CECS	A
L3	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W	A
L4	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND A MOVEMENT SENSOR	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W MS	A
L5	2500 LUMEN 3000K LED	200 DEEP SURFACE CAN DOWNLIGHT C/W WIDE BEAM SILVER REFLECTOR INTEGRAL DALI DIMMABLE DRIVER	WHITE	FITTING SELECTION BY THE CONTRACTOR	A
L6	8W 3000K LED	GARDEN STAKE FITTING C/W REMOTE DALI DIMMABLE DRIVER MOUNT THE FITTING IN THE GARDEN AS PER THE ARCHITECTURAL DETAIL IT IS ACCEPTABLE TO SUPPLY MULTIPLE UP2 FITTINGS ON THE SAME CHANNEL FROM A SINGLE SUITABLY SIZED DRIVER / POWER SUPPLY	BLACK	EQUAL TO GAMMA ILLUMINATION RULLO 1373- FL-8W- 3K	A
L7	250W FULL SPECTRUM LED	SURFACE MOUNTED ADJUSTABLE FULL SPECTRUM GROW LIGHT C/W INTEGRAL DRIVER	BLACK	FITTING SELECTION BY THE CONTRACTOR	A
L8	13W 3000K LED	INGROUND IP67 ADJUSTABLE UP LIGHT C/W REMOTE DALI DIMMABLE DRIVER IT IS ACCEPTABLE TO SUPPLY MULTIPLE UP1 FITTINGS ON THE SAME CHANNEL FROM A SINGLE SUITABLY SIZED DRIVER / POWER SUPPLY	STAINLESS STEEL	EQUAL TO GAMMA ILLUMINATION 1069-VWFL-3K-13W	A
L9	3000K LED	EXTERNAL WALL LIGHT C/W INTEGRAL DALI DIMMABLE DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	TBA	ALLOW A PC SUM OF \$600.00 FOR THE SUPPLY OF EACH L9 FITTING	A



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L10	45W 5000K LED	CARPARK POLE LIGHT MOUNTED 9000M ABOVE THE CARPARK LEVEL WITH THE POLE FIXED TO THE PARAPET. PROVIDE THE FITTING WITH A SPILL LIGHT SHIELD AS DIRECTED ON TAPERED GALVANIZED POLE. SUBMIT A SHOP DRAWING OF THE POLE AND MOUNTING FOR APPROVAL	SILVER FITTING	EQUAL TO GAMMA ILLUMINATION ALTUS 1342-4K-45W	A
L11	28W 5000K LED	CARPARK POLE LIGHT MOUNTED 9000M ABOVE THE CARPARK LEVEL WITH THE POLE FIXED TO THE PARAPET. PROVIDE THE FITTING WITH A SPILL LIGHT SHIELD AS DIRECTED ON TAPERED GALVANIZED POLE. SUBMIT A SHOP DRAWING OF THE POLE AND MOUNTING FOR APPROVAL	SILVER FITTING	EQUAL TO GAMMA ILLUMINATION ALTUS 1342-4K-28W	A
L12	28W 5000K LED	CARPARK POLE LIGHT MOUNTED 9000M ABOVE THE CARPARK LEVEL WITH THE POLE GROUND MOUNTED. PROVIDE THE FITTING WITH A SPILL LIGHT SHIELD AS DIRECTED ON TAPERED GALVANIZED POLE. SUBMIT A SHOP DRAWING OF THE POLE AND MOUNTING FOR APPROVAL	SILVER FITTING	EQUAL TO GAMMA ILLUMINATION ALTUS 1342-4K-28W	A
L13	20W 4000K LED	600 X 300 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PLASTER BOARD KIT	WHITE TRIM	EQUAL TO GAMMA ILLUMINATION PHANTOM 884503	A
L14	40W 4000K LED	1200 X 300 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PLASTER BOARD KIT	WHITE TRIM	EQUAL TO GAMMA ILLUMINATION PHANTOM 884501	A
L15	4000K LED	RECESSED AMENITY SHOWER DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION ATRIA 1192-4K-22W	A
L16	5000K LED	SUSPENDED HIGH BAY FITTING C/W INTEGRAL DALI DIMMABLE DRIVER	BLACK	GAMMA ILLUMINATION 881537-4K	A
L17	2500 LUMEN 3000K LED	200 DEEP SURFACE CAN DOWNLIGHT C/W WIDE BEAM SILVER REFLECTOR INTEGRAL DALI DIMMABLE DRIVER	WHITE	FITTING SELECTION BY THE CONTRACTOR	A
L18	3000K LED	RECESSED DOWNLIGHT C/W REMOTE SWITCHED DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-3K-8W	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L19	3000K LED	INTERNAL WALL LIGHT 120 X 90 X 180 HIGH C/W REMOTE SWITCHED DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	EGG SHELL WHITE	EQUAL TO LIGHTING COLLECTIVE EXTERIOR CERAMIC INDENTED WALL LIGHT	A
L20	15W 3000K LED 38 DEG	SURFACE MOUNTED ADJUSTABLE DOWNLIGHT C/E REMOTE DALI DIMMABLE DRIVER	WHITE	EQUAL TO EST LIGHTING SPLIT TUBE 9W 40D WHITE	A
RDL1	3000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	EQUAL TO GAMMA ILLUMINATION CIBA 1218-FL-3K-13W	A
RDL2	2700K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	EQUAL TO LUMEN 8 SOLIS R11	A
SDL1	3000K LED	SURFACE MOUNTED CUSTOM LIGHT C/W REMOTE DALI DIMMABLE DRIVER	TBA	ALLOW A PC SUM OF \$600.00 FOR THE SUPPLY OF EACH SDL1 FITTING	A
SDL2	3000K LED 10W	SURFACE MOUNTED CAN DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	CUSTOM POWDER COAT COLOUR TO BE CONFIRMED BY THE ARCHITECT	EQUAL TO LUMEN 8 ROLL	A
WL1	3000K LED	EXTERNAL WALL LIGHT C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	BRONZE	EQUAL TO LUMEN 8 COMET WALL	A
WL2	3000K LED	EXTERNAL WALL LIGHT 240 X 50 X 150 HIGH C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	WHITE	EQUAL TO LIGHTING COLLECTIVE HANDMADE PORCELAIN CRESCENT WALL LIGHT SMALL	A
WL3	3000K LED	INTERNAL WALL LIGHT 170 X 50 X 115 HIGH C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	WHITE	EQUAL TO LIGHTING COLLECTIVE HANDMADE PORCELAIN CRESCENT WALL LIGHT SMALL	A



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WL4	3000K LED	INTERNAL WALL LIGHT 120 X 90 X 180 HIGH C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	EGGSHELL WHITE	EQUAL TO LIGHTING COLLECTIVE EXTERIOR CERAMIC INDENTED WALL LIGHT	A
WL5	2 OFF E14 240VOLT 27000 L LED LAMPS	INTERNAL WALL LIGHT CONFIRM THE FITTING MOUNTING HEIGHT WITH THE ARCHITECT	ANTIQUE BRASS	EQUAL TO DINA ANTIQUE BRASS PICTURE WALL LIGHT	A
PL1	3000K LED	CUSTOM DECORATE PENDANT C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE SUSPENSION HEIGHT WITH THE ARCHITECT	CUSTOM POWDER COAT COLOUR TO BE CONFIRMED BY THE ARCHITECT	ALLOW A PC SUM OF \$2000.00 FOR THE SUPPLY OF EACH PL1 FITTING	A
PL2	3000K LED	300 DIA BALL PENDANT C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE SUSPENSION HEIGHT WITH THE ARCHITECT	OPAL BALL BRONZE TRIM & ROD	EQUAL TO LUMEN 8 300 DIA BALL ON ROD	A
PL3	NOT USED				A
PL4	3000K LED	CUSTOM DECORATE PENDANT C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE SUSPENSION HEIGHT WITH THE ARCHITECT	POPPYSEED	EQUAL TO ROBERT GORDON LARGE CERAMIC PENDANT BELL LIGHT	A
PL5	3000K LED	300 DIA BALL PENDANT C/W REMOTE DALI DIMMABLE DRIVER CONFIRM THE SUSPENSION HEIGHT WITH THE ARCHITECT	OPAL BALL BRONZE TRIM & ROD	EQUAL TO LUMEN 8 300 DIA BALL ON ROD	A
CAT	4W LED FILAMENT LAMPS	COMMERCIAL FESTOON LIGHTING C/W STAINLESS STEEL SUSPENSION	BLACK	EQUAL TO GLOW WORM LIGHTING	A
TL1	3000K LED 240 VOLT	TABLE LAMP ALLOW TO INSTALL	TBA	ALLOW A PC SUM OF \$600.00 FOR HE SUPPLY OF EACH TL1 FITTING	A
S1	2.0W 4000K LED	RECESSED DOWNLIGHTS AT 1600 CENTRES C/W ASYMMETRICAL REFLECTOR MOUNTED WITHIN THE STAIR HAND REMOTE DALI DIMMABLE DRIVER / POWER SUPPLY	SILVER	EQUAL TO KLIK SYSTEMS LEDPOD 50	A



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S2	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN THE FEATURE WALL FLOOR PELMET TO UPLIGHT AS PER THE ARCHITECTURAL DETAIL PROVIDE THE STRIP WITH A REMOTE DEDICATED 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT PER GROUP NOT EXCEEDING 10M OF STRIP LOCATED IN A CONCEALED ACCESSIBLE POSITION.	WHITE	EQUAL TO NPA L-NF-GLO + POWER SUPPLY & DALI CONTROLLER	A
S3	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN THE FEATURE WALL CEILING PELMET TO DOWNLIGHT AS PER THE ARCHITECTURAL DETAIL PROVIDE THE STRIP WITH A REMOTE DEDICATED 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT PER GROUP NOT EXCEEDING 10M OF STRIP LOCATED IN A CONCEALED ACCESSIBLE POSITION.	WHITE	EQUAL TO NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S4	12W/M 3000K LED	MULTIPLE HORIZONTAL RUNS OF FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN A FLUSH RECESS WITHIN THE REAR BAR JOINERY AS PER THE ARCHITECTURAL DETAIL PROVIDE THE STRIP WITH A REMOTE DEDICATED 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT PER GROUP NOT EXCEEDING 10M OF STRIP LOCATED IN A CONCEALED ACCESSIBLE POSITION.	WHITE	EQUAL TO NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S5	12W/M 3000K LED	MULTIPLE HORIZONTAL RUNS OF FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN A FLUSH RECESS WITHIN THE REAR BAR JOINERY AS PER THE ARCHITECTURAL DETAIL PROVIDE THE STRIP WITH A REMOTE DEDICATED 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT PER GROUP NOT EXCEEDING 10M OF STRIP LOCATED IN A CONCEALED ACCESSIBLE POSITION.	WHITE	EQUAL TO NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S6	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN THE COUNTER PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE THE STRIP WITH A REMOTE DEDICATED 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT PER GROUP NOT EXCEEDING 10M OF STRIP LOCATED IN A CONCEALED ACCESSIBLE POSITION.	WHITE	EQUAL TO NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S7	A SINGLE HORIZONTAL RUN OF LED STRIP LIGHT 4000K WHITE LEDS AT 12MM SPACING WITH REMOTE CONTROL GEAR. MOUNT THE LED STRIP UNDER THE OVERHEAD CUPBOARDS HARD AGAINST THE SPLASHBACK AS PER THE ARCHITECTURAL JOINERY DETAILS THE SUPPLIER IS TO CUT / JOIN THE LED STRIPS TO SUIT THE SITE DIMENSIONS. DO NOT CUT THE LED STRIPS ON SITE SCREW FIX THE ALUMINIUM SUPPORT IN PLACE.			EQUAL TO NEON PRODUCTS AUSTRALIA LF-DFB-NW-300-12 + PR-LIN172153-F	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
HE/C	3400 W	CONCRETE SOFFIT FLUSH MOUNTED 3400W HEATER C/W FLUSH MOUNT BRACKET AS REQUIRED REFER TO THE LIGHTING CONTROL SCHEDULE FOR ADDITIONAL CONTROL REQUIREMENTS	WHITE	EQUAL TO BROMIC PLATINUM SMART HEAT ELECTRIC 11 2620248	A
HE/W2	3400 W	WALL MOUNTED ADJUSTABLE 3400W HEATER C/W CUSTOM SUPPORT / SUSPENSIONS AS REQUIRED REFER TO THE LIGHTING CONTROL SCHEDULE FOR ADDITIONAL CONTROL REQUIREMENTS	WHITE	EQUAL TO BROMIC PLATINUM SMART HEAT ELECTRIC 11 2620248	A
H1	100W IR LAMP	PENDANT HEAT LAMP CONFIRM THE SUSPENSION HEIGHT WITH THE ARCHITECT	GLOSSY GRAY	EQUAL TO HATCO DL-775-CN PLUS 100W IR LAMP	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	EQUAL TO CLEVERTRONICS LLIFE	A
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	WHITE	EQUAL TO CLEVERTRONICS LLIFE-SM	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	EQUAL TO CLEVERTRONICS LCFLED	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	EQUAL TO CLEVERTRONICS LWELED	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-D8 - C90-E3.2.	WHITE	EQUAL TO CLEVERTRONICS LUBPRO-SM	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



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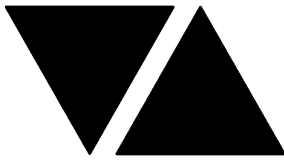
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PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE TRIPLE PYRO PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER.	WHITE	CLIPSAL. SELECTION BY THE CONTRACTOR. SUBMIT DETAILS OF THE PROXIMITY DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	A
DAY LIGHT DETECTOR SWITCH (DS)		ADJUSTABLE SURFACE MOUNTED DYNALITE DAY LIGHT DETECTOR SWITCH. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER.	WHITE	SELECTION BY THE CONTRACTOR. SUBMIT DETAILS OF THE PROXIMITY DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	A
MOVEMENT DETECTOR SWITCH (MS)		ADJUSTABLE SURFACE MOUNTED DYNALITE MOVEMENT DETECTOR SWITCH. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER.	WHITE	SELECTION BY THE CONTRACTOR. SUBMIT DETAILS OF THE PROXIMITY DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	A
FIRE INDICATOR PANEL (FIP)		FLUSH RECESSED AS1670.1 COMPLIANT WHITE FIRE INDICATOR PANEL C/W RECESS TRIM KIT TO CONTAIN THE FDCIE AND EWCI.			A
ASPIRATING SMOKE DETECTOR		AS1670.1 ASPIRATING SMOKE DETECTOR TO MONITOR THE LIFT SHAFT AS PER THE FIRE ENGINEERING REPORT.			A
RECESSED FIRE ALARM SPEAKER		AS1670.1 RECESSED FIRE ALARM SPEAKER C/W WHITE GRILL			A
SURFACE MOUNTED FIRE ALARM SPEAKER		AS1670.1 SURFACE MOUNTED FIRE ALARM SPEAKER C/W WHITE GRILL / HOUSING			A
FIRE ALARM HORN		AS1670.1 SURFACE MOUNTED IP66 FIRE ALARM HORN			A
VISUAL ALARM DEVICE (VAD)		AS1670.1 SURFACE MOUNTED VISUAL ALARM DEVICE			A
VALVE MONITORING CONNECTION (VM)		SPRINKLER / HYDRANT SYSTEM VALVE MONITORING POINT / FIRE ALARM SYSTEM INTERFACE.			A
FLOW SWITCH CONNECTION (FS)		SPRINKLER / HYDRANT SYSTEM FLOW SWITCH MONITORING POINT / FIRE ALARM SYSTEM INTERFACE.			A

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# ELECTRICAL DESIGN GROUP

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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 02 OCTOBER 2024

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK  
[www.edg.net.au/Links/Lighting.htm](http://www.edg.net.au/Links/Lighting.htm)

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
GAS CONTROL SYSTEM		GAS CONTROL SYSTEM TO BE INTERFACED TO THE FIRE ALARM SYSTEM			A
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 UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
TWO-WAY LIGHT SWITCH		TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
LIGHTING CONTROL SWITCH PANEL (SPx)		6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. REFER TO THE LIGHTING CONTROL SCHEDULE	ALUMINIUM	DYNALITE ANTUMBRA DISPLAY	A
HAND DRYER CONNECTION (HD)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND FOR THE HAND DRYER MOUNT THE GPO AS PER THE ARCHITECTURAL DETAIL	WHITE	CLIPSAL C2000 SERIES 30USM	A
SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
SINGLE POWER OUTLET FOR THE AUTO DOOR (AD)		SINGLE 10 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED WITHIN THE AUTO DOOR MULLION	WHITE	CLIPSAL C2000 SERIES	A
IP56 SINGLE POWER OUTLET		SINGLE POWER OUTLET IP56 MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	GREY	CLIPSAL 56 SERIES	A
DOUBLE POWER OUTLET (USB)		DOUBLE POWER OUTLET C/W USB CHARGER AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES + 30USBCM MECH	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 15A POWER OUTLET SUSPENDED (SUS)		SINGLE 15A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL "56 SERIES" 56SPO315	



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
SIGN		COORDINATE THE LOCATION AND CONNECTION WITH THE SIGN CONTRACTOR ENSURING THE GPO / ISOLATORS ARE PROVIDED WITH APPROPRIATE WEATHER PROTECTION AND ARE CONCEALED FROM VIEW.			
FLOOR BOX TYPE 1 (FB1)		INSITU FLUSH FLOOR BOX C/W A DOUBLE GPO AND 3 COMMUNICATIONS OUTLETS ON THE SAME FACEPLATE . PROVIDE A 32 DIA CONDUIT C/W A SPARE DRAW WIRE FROM THE REAR OF THE COMMUNICATIONS FACEPLATE TO AN ACCESSIBLE POSITION IN THE CEILING SPACE NOTED ON THE AS CONSTRUCTED DRAWINGS. PROVIDE THE GPOS AND COMMUNICATIONS OUTLETS AS PER THE STANDARD DESCRIPTIONS.	STAINLESS STEEL	ECD FB2SR	A
SPECIAL PURPOSE OUTLET		SPECIAL PURPOSE OUTLET TYPE AS NOTED. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.			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
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.	-	CLIPSAL WHT35	A
DB-A		LEVEL 0 DISTRIBUTION BOARD DB-A AS PER THE DB-A SCHEDULE AND NOTES. PROVIDE A SHOP DRAWING OF DB-A FOR APPROVAL.			A
DB-B		LEVEL 1 DISTRIBUTION BOARD DB-B AS PER THE DB-B SCHEDULE AND NOTES. PROVIDE A SHOP DRAWING OF DB-B FOR APPROVAL.			A
DB-C		LEVEL 2 DISTRIBUTION BOARD DB-C AS PER THE DB-C SCHEDULE, DB-C SCHEMATIC AND NOTES. PROVIDE A SHOP DRAWING OF DB-C FOR APPROVAL.			A
DB-D		CAFE TENANCY DISTRIBUTION BOARD DB-D AS PER THE DB-D SCHEDULE AND NOTES. PROVIDE A SHOP DRAWING OF DB-D FOR APPROVAL.			A
DB-E		EV CHARGER DISTRIBUTION BOARD DB-E AS PER THE DB-E SCHEDULE AND NOTES. PROVIDE A SHOP DRAWING OF DB-E FOR APPROVAL.			A
DB-R		REFRIGERATION DISTRIBUTION BOARD DB-R AS PER THE DB-R SCHEDULE AND NOTES. PROVIDE A SHOP DRAWING OF DB-R FOR APPROVAL.			A
MSSB-CP		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
MSSB-1		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
INVERTER		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.			A

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
PV PANELS		33KW OF PV PANELS C/W GALVANIZED MOUNTING BRACKET. PROVIDE PV PANELS WITH A 10 YEAR PRODUCT WARRANTY AND A 25 YEAR PANEL PERFORMANCE WARRANTY. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS.			A
MSB		MAIN SWITCHBOARD AS PER THE POWER SCHEMATIC AND THE NOTES. PROVIDE A SHOP DRAWING OF THE MAIN SWITCHBOARD FOR APPROVAL.			A
REVENUE METER (M1)		NEM CODE COMPLIANT CT RETAIL METER INCLUDING ALL ASSOCIATED COMPONENTS INCLUDING THE METERS AND CTS ETC.			A
REVENUE METER (M2)		NEM CODE COMPLIANT DIRECT WIRED RETAIL METER INCLUDING ALL ASSOCIATED COMPONENTS INCLUDING THE METERS AND FUSED LINKS ETC.			A
EV METER (M3)		ELECTRIC VEHICLE CHARGING CONTROL SYSTEM DEMAND METER AS PER J9D4 OF THE NCC BCA 2022.			A
ENERGY METER (M4)		ENERGY MONITORING SYSTEM METER AS PER J9D3 OF THE NCC BCA 2022			A
COMMUNICATIONS RACK (CR-A)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-A PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE SPECIFICATION. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-B)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-B FOR USE BY THE SECURITY CONTRACTOR PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE SPECIFICATION. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-C)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-C FOR USE BY THE AUDIO CONTRACTOR	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-D)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-D FOR USE BY THE AUDIO CONTRACTOR	BLACK	REDBACK A4.8842D	A

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO CAT 6 PATCH PANELS IN RACK CR-A VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE. PROVIDE EACH COMMUNICATIONS OUTLET WITH A 1200 LONG PRETERMINATED ULTRA THIN PATCH LEAD OF THE SAME COLOUR AS THE COMMUNICATIONS UTP CABLING.	WHITE	CLIPSAL "C2000 SERIES"	A
CCTV POINT		MALE CCTV RJ45 CAT-6 PLUS, CABLED BACK TO CAT 6 PATCH PANELS IN RACK CR-B VIA 4-PAIR CAT-6 UTP CABLE. PERMANENT LABELLING. PROVIDE EACH CCTV POINT WITH A 1200 LONG PRETERMINATED ULTRA THIN PATCH LEAD OF THE SAME COLOUR AS THE CCTV UTP CABLING.			A
SECURITY EQUIPMENT		SECURITY EQUIPMENT. WALL MOUNTED AT HIGH LEVEL. ENSURE THE POWER AND COMMUNICATIONS OUTLETS SUPPLYING THE SECURITY EQUIPMENT ARE MOUNTED WITHIN THE SECURITY EQUIPMENT HOUSINGS SUCH THAT THE OUTLETS AND 240 VOLT FLEXES ARE NOT VISIBLE UNDER NORMAL CONDITIONS.			A
PIEZO SIREN		FLUSH RECESSED WHITE PIEZO SIREN. SUBMIT DETAILS OF THE PIEZO SIREN FOR APPROVAL PRIOR TO ORDERING.			A
SATELLITE STROBE		WALL MOUNTED AT HIGH LEVEL SECURITY SYSTEM SATELLITE STROBE. SUBMIT DETAILS OF THE STROBE INCLUDING ITS MOUNTING POSITION FOR APPROVAL PRIOR TO ORDERING.			A
KEY PAD (KP)		SECURITY ARMING / DISARMING KEY PAD WALL MOUNTED. SUBMIT DETAILS OF THE KEY PAD AND ENCLOSURE FOR APPROVAL PRIOR TO ORDERING.			A
CARD READER (CR)		WALL-MOUNTED 1000AFFL VANDAL-RESISTANT ACCESS CONTROL SYSTEM HEAVY-DUTY PROXIMITY CARD READER. PROVIDE DOOR READERS AND POWER SUPPLIES AS REQUIRED.			A
EXIT PUSH BUTTON (PB)		MOMENTARY PUSH BUTTON INTERFACED TO THE SECURITY SYSTEM TO UNLOCK THE ASSOCIATED DOOR MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. PROVIDE CONTRASTING ENGRAVING "PRESS TO EXIT"	WHITE	CLIPSAL C2000 SERIES	A
DOOR MAGNETIC HOLDER (MH)		MAGNETIC DOOR HOLDERS CONNECTED TO THE ACCESS CONTROL SYSTEM. PROVIDE DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED.			A
DOOR ELECTRIC STRIKE (ES)		FLUSH MOUNTED FAIL SAFE ELECTRIC DOOR STRIKE PLATE CONNECTED TO THE SECURITY SYSTEM TO CONTROL THE DOOR. PROVIDE CONCEALED DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED. PROVIDE A BATTERY BACK UP SYSTEM SUCH THAT THE ELECTRIC STRIKES REMAIN LOCKED FOR AT LEAST FOUR HOURS UPON MAINS POWER FAILURE. COORDINATE THE ELECTRIC DOOR STRIKE INTERFACE WITH THE DOOR SUPPLIER. EACH ELECTRIC STRIKE IS TO BE PROVIDED WITH DOOR STATUS REPORTING (DOOR OPEN / DOOR CLOSED)			A

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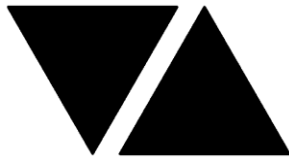
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
DOOR REED SWITCH		FLUSH DOOR REED SWITCH WITH ALL CABLING AND ASSOCIATED CONDUIT CONCEALED. CONNECT EACH DOOR / SET OF DOORS CONFIGURED AS A SINGLE ZONE. SUBMIT DETAILS OF THE REED SWITCHES INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			A
ROLLER SHUTTER DOOR REED SWITCH		HEAVY DUTY STAINLESS STEEL FLOOR MOUNTED ROLLER SHUTTER DOOR REED SWITCH WITH ALL CABLING AND ASSOCIATED CONDUIT CONCEALED. CONNECT EACH DOOR AS A SINGLE ZONE. SUBMIT DETAILS OF THE RSD REED SWITCH INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			A
INTRUDER DETECTOR		DUAL-TECHNOLOGY 360 DEG MOVEMENT DETECTORS CEILING RECESSED MOUNTED AS PER THE MANUFACTURER'S SPECIFICATION. CONNECT TO THE SECURITY EQUIPMENT WITH ONE DETECTOR PER ZONE. SUBMIT DETAILS OF THE DETECTORS INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			A
NBN PREMISE CONNECTION DEVICE (PCD)		NBN COMPLIANT PREMISES CONNECTION DEVICE AS PER THE PCD DETAIL TO BE CONNECTED TO THE NTD VIA AN NBN COMPLIANT DROP CONDUIT. CONNECT THE PCD TO THE TELSTRA PIT VIA AN NBN COMPLIANT LEAD-IN CONDUIT.			A
NBN NETWORK TERMINATION UNIT (NTD)		NBN COMPLIANT NETWORK TERMINATION UNIT TO BE PROVIDED IN ACCORDANCE WITH THE NBN REQUIREMENTS			A
A1		AUDIO OUTLET, CABLED BACK TO RACK CR-C VIA 4-PAIR CAT-6 UTP CABLE. PERMANENT LABELLING	WHITE	CLIPSAL "C2000 SERIES"	A
4 INCH SPEAKER		PROVIDE CONCEALED 2CORE 14AWG STRANDED SPEAKER CABLE FOR A FLUSH RECESSED 4 INCH SPEAKER ZONED AS INDICATED CABLED BACK TO CR-C WITH 1M SLACK AT THE SPEAKER AND 2M SLACK AT CR-C FOR TERMINATION BY THE CLIENTS AV CONTRACTOR			A
6 INCH SPEAKER		PROVIDE CONCEALED 2CORE 14AWG STRANDED SPEAKER CABLE FOR A FLUSH RECESSED 6.5 INCH SPEAKER ZONED AS INDICATED CABLED BACK TO CR-C WITH 1M SLACK AT THE SPEAKER AND 2M SLACK AT CR-C FOR TERMINATION BY THE CLIENTS AV CONTRACTOR			A
8 INCH SUB WOOFER SPEAKER (SW)		PROVIDE CONCEALED 2CORE 14AWG STRANDED SPEAKER CABLE FOR A FLUSH RECESSED 8 INCH SPEAKER ZONED AS INDICATED CABLED BACK TO CR-C WITH 1M SLACK AT THE SPEAKER AND 2M SLACK AT CR-C FOR TERMINATION BY THE CLIENTS AV CONTRACTOR			A
WALL MOUNTED SPEAKER		PROVIDE CONCEALED 2CORE 14AWG STRANDED SPEAKER CABLE FOR A WALL MOUNTED SPEAKER ZONED AS INDICATED CABLED BACK TO CR-C WITH 1M SLACK AT THE SPEAKER AND 2M SLACK AT CR-C FOR TERMINATION BY THE CLIENTS AV CONTRACTOR			A



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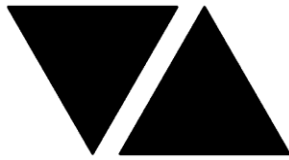
DISTRIBUTION BOARD DB-A (GROUND NORTH)

REVISION A - 02 OCTOBER 2024

							REV	
FAULT CURRENT:		6KA USING CASCADING			MAIN SWITCH:		250A NON AUTO LOAD BREAK	A
CHASSIS SIZE:		84 POLE POWER 24 POLE LIGHTING			SUPPLIED FROM:		MSB	A
CHASSIS RATING:		250A			SUPPLY CABLE:		4C70	A
PHASES:		A						A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS INCLUDING THE DYNALITE EQUIPMENT PROVIDED AS PART OF THE INITIAL FITOUT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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							A	
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE		
P1	3	20	RCBO	2.5	LOADING	RSD	A	
P2	1	20	RCBO	2.5	LOADING	MAINT CLEANING	A	
P3	1	20	RCBO	2.5	LOADING	PRESS	A	
P4	1	20	RCBO	2.5	LOADING	MAINT CLEANING	A	
P5	1	20	RCBO	2.5	LOADING	MAINT CLEANING	A	
P6	3	20	RCBO	2.5	LOADING	TURNTABLE	A	
P7	1	20	RCBO	2.5	LEVEL 0	MAINT CLEANING	A	
P8	3	20	RCBO	2.5	BUTCHER	HWS	A	
P9	1	20	RCBO	2.5	BUTCHER	BENCH GPO	A	
P10	1	20	RCBO	2.5	BUTCHER	REF	A	
P11	1	20	RCBO	2.5	BUTCHER	REF	A	
P12	1	20	RCBO	2.5	BUTCHER	AUTO DOOR	A	
P13	1	20	RCBO	2.5	BUTCHER	REF	A	
P14	1	20	RCBO	2.5	BUTCHER	REF	A	
P15	1	20	RCBO	2.5	BUTCHER	GPO	A	
P16	1	20	RCBO	2.5	BUTCHER	TV	A	
P17	1	20	RCBO	2.5	PWD	HAND DRYER	A	
P18	1	20	RCBO	2.5	KITCHEN	OFFICE GPOs	A	
P19	1	20	RCBO	2.5	KITCHEN	GAS CONTROL	A	
P20	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P21	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P22	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P23	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P24	1	20	RCBO	2.5	KITCHEN	BEER	A	
P25	1	20	RCBO	2.5	KITCHEN	BEER	A	
P26	1	20	RCBO	2.5	KITCHEN	POST MIX	A	
P27	1	20	RCBO	2.5	KITCHEN	POST MIX	A	
P28	3	20	RCBO	2.5	KITCHEN	10KW DW	A	
P29	1	20	RCBO	2.5	KITCHEN	ICE	A	
P30	1	20	RCBO	2.5	KITCHEN	GPO	A	
P31	1	20	RCBO	2.5	KITCHEN	GPO	A	
P32	1	20	RCBO	2.5	KITCHEN	GPO	A	
P33	1	20	RCBO	2.5	KITCHEN	GPO	A	
P34	3	32	RCBO	6.0	KITCHEN	20.5KW COMBIE	A	
P35	3	32	RCBO	6.0	KITCHEN	17KW FRYWER	A	
P36	3	25	RCBO	4.0	KITCHEN	15KW INVIRO	A	
P37	1	20	RCBO	2.5	KITCHEN	GPO	A	
P38	1	20	RCBO	2.5	EXTERNAL	SUN BLINDS	A	
L1	1	20	RCBO	2.5	LEVEL 0	LIGHTING	A	
L2	1	20	RCBO	2.5	LEVEL 0	LIGHTING	A	
L3	1	20	RCBO	2.5	LEVEL 0	LIGHTING	A	
L4	1	20	RCBO	2.5	LEVEL 0	LIGHTING	A	

C3234a-0005(A).xls

Pages inc. any attach. 1 of 1



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-B (GROUND SOUTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0006(A).xls**

							REV	
FAULT CURRENT:		6KA USING CASCADING			MAIN SWITCH:		250A NON AUTO LOAD BREAK	A
CHASSIS SIZE:		84 POLE POWER 24 POLE LIGHTING			SUPPLIED FROM:		MSB	A
CHASSIS RATING:		250A			SUPPLY CABLE:		4C70	A
PHASES:		3						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. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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							A	
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE		
P1	1	20	RCBO	2.5	LEVEL 0	CLEANING MAINT	A	
P2	1	20	RCBO	2.5		TV	A	
P3	1	20	RCBO	2.5		CLEANING MAINT	A	
P4	3	20	RCBO	2.5	LEVEL 0	STORM WATER PUMP	A	
P5	1	20	RCBO	2.5	LEVEL 0	IRRIGATION CONTROL	A	
P6	1	20	RCBO	2.5	LEVEL 0	IRRIGATION PUMP	A	
P7	1	20	RCBO	2.5	LEVEL 1	MAINTENANCE	A	
P8	1	20	RCBO	2.5	LEVEL 1	MIST PUMP	A	
P9	1	20	RCBO	2.5	LEVEL 1	MIST PUMP	A	
P10	1	20	RCBO	2.5	LEVEL 1	JACKING PUMP	A	
P11	1	20	RCBO	2.5	LEVEL 1	JACKING PUMP	A	
P12	3	20	RCBO	2.5	LEVEL 1	RSD	A	
P13	1	20	RCBO	2.5	LEVEL 2	MAINTENANCE	A	
P14	1	20	RCBO	2.5	LEVEL 1	CLEANING	A	
P15	1	20	RCBO	2.5	LEVEL 1	TAISTING	A	
P16	1	20	RCBO	2.5	LEVEL 1	DINING	A	
P17	1	20	RCBO	2.5	LEVEL 1	TV	A	
P18	1	20	RCBO	2.5	LEVEL 1	AMENITY	A	
P19	1	20	RCBO	2.5	LEVEL 1	HD	A	
P20	1	20	RCBO	2.5	LEVEL 1	HD	A	
P21	1	20	RCBO	2.5	LEVEL 1	STAFF GPO	A	
P22	1	20	RCBO	2.5	LEVEL 1	HD	A	
P23	1	20	RCBO	2.5	LEVEL 1	STAFF APPLIANCES	A	
P24	1	20	RCBO	2.5	LEVEL 1	LAUNDRY	A	
P25	1	20	RCBO	2.5	LEVEL 1	LAUNDRY	A	
P26	1	20	RCBO	2.5	LEVEL 1	OFFICE	A	
P27	1	20	RCBO	2.5	LEVEL 1	SECURITY	A	
P28	1	20	RCBO	2.5	LEVEL 1	RACK A	A	
P29	1	20	RCBO	2.5	LEVEL 1	RACK A	A	
P30	1	20	RCBO	2.5	LEVEL 1	RACK B	A	
P31	1	20	RCBO	2.5	LEVEL 1	RACK B	A	
P32	1	20	RCBO	2.5	LEVEL 1	RACK C	A	
P33	1	20	RCBO	2.5	LEVEL 1	RACK C	A	
P34	1	20	RCBO	2.5	LEVEL 1	RACK D	A	
P35	1	20	RCBO	2.5	LEVEL 1	RACK D	A	
P36	1	20	RCBO	2.5	BAR	BAR GPO	A	
P37	1	20	RCBO	2.5	BAR	BAR GPO	A	
P38	1	20	RCBO	2.5	BAR	REF	A	
P39	1	20	RCBO	2.5	WARMING	DW	A	
P40	1	20	RCBO	2.5	WARMING	DW	A	
P41	1	20	RCBO	2.5	BAR	15A GPO	A	
P42	1	20	RCBO	2.5	WARMING	15A GPO	A	
P43	1	20	RCBO	2.5	WARMING	HEATER	A	
P44	1	20	RCBO	2.5	WARMING	HEATER	A	
P45	1	20	RCBO	2.5	GARDEN ROOM	PROJECTOR	A	

C3234a-0006(A).xls

Pages inc. any attach. 1 of 2



# ELECTRICAL DESIGN GROUP

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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-B (GROUND SOUTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0006(A).xls**

FAULT CURRENT: 6KA USING CASCADING  CHASSIS SIZE: 84 POLE POWER 24 POLE LIGHTING  CHASSIS RATING: 250A  PHASES: 3  MAIN SWITCH: 250A NON AUTO LOAD BREAK  SUPPLIED FROM: MSB  SUPPLY CABLE: 4C70							REV
							A
							A
							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. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
L1	1	20	RCBO	2.5	STAIR	LIGHTS	A
L2	1	20	RCBO	2.5	STAIR	LIGHTS	A
L3	1	20	RCBO	2.5	LOADING	LIGHTS	A
L4	1	20	RCBO	2.5	KITCHEN	LIGHTS	A
L5	1	20	RCBO	2.5	STAIR / FOYER	LIGHTS	A
L6	1	20	RCBO	2.5	STAIR / FOYER	LIGHTS	A
L7	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L8	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L9	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L10	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L11	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L12	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L13	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L14	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L15	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L16	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L17	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L18	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L19	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L20	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L21	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L22	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L23	1	20	RCBO	2.5	LEVEL 1	LIGHTS	A
L24	1	20	RCBO	2.5	LOADING	LIGHTS	A





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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-C (LEVEL 1 NORTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0007(A).xls**

							REV	
FAULT CURRENT:		6KA USING CASCADING			MAIN SWITCH:		400A NON AUTO LOAD BREAK	A
CHASSIS SIZE:		REFER TO THE DB-C SCHEMATIC			SUPPLIED FROM:		MSB	A
CHASSIS RATING:		250A			SUPPLY CABLE:		1C95	A
PHASES:		3						A
REFER TO THE DB-C SCHEMATIC FOR ADDITIONAL CONFIGURATION REQUIREMTNS. 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. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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								A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE		
P1	1	20	RCBO	2.5	LEVEL 2	FIP	A	
P2	3	40	TYPE B CURVE METER M4	6.0	LEVEL 2	LIFT 1	A	
P3	3	40	TYPE B CURVE METER M4	6.0	LEVEL 2	LIFT 2	A	
P4	1	20	RCBO	2.5	LEVEL 2	ENTRY GPO	A	
P5	1	20	RCBO	2.5	LEVEL 2	TV	A	
P6	1	20	RCBO	2.5	LEVEL 2	TV	A	
P7	1	20	RCBO	2.5	LEVEL 2	CLEANING MAINT	A	
P8	1	20	RCBO	2.5	LEVEL 2	AMENITY	A	
P9	1	20	RCBO	2.5	LEVEL 2	HAND DRYER	A	
P10	1	20	RCBO	2.5	LEVEL 2	HAND DRYER	A	
P11	1	20	RCBO	2.5	LEVEL 2	HAND DRYER	A	
P12	1	20	RCBO	2.5	LEVEL 2	DINING	A	
P13	1	20	RCBO	2.5	LEVEL 2	GARDEN ROOM	A	
P14	1	20	RCBO	2.5	LEVEL 2	TV	A	
P15	1	20	RCBO	2.5	TERRACE	CLEANING	A	
P16	1	20	RCBO	2.5	BAR	CLEANING	A	
P17	1	20	RCBO	2.5	COURTYARD	CLEANING	A	
P18	1	20	RCBO	2.5	BAR	TV	A	
P19	1	20	RCBO	2.5	TERRACE	BLINDS	A	
P20	1	20	RCBO	2.5	BAR	REF	A	
P21	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A	
P22	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A	
P23	1	20	RCBO	2.5	KITCHEN	ICE	A	
P24	1	20	RCBO	2.5	KITCHEN	GAS CONTROL	A	
P25	1	20	RCBO	2.5	KITCHEN	GPO	A	
P26	1	20	RCBO	2.5	KITCHEN	15A GPO	A	
P27	1	25	RCBO	4.0	KITCHEN	SALAMANDA	A	
P28	3	20	RCBO	2.5	KITCHEN	DISHWASHER	A	
P29	1	25	RCBO	4.0	KITCHEN	PIZZA	A	
P30	1	20	RCBO	2.5	KITCHEN	GLASS WASHER	A	
P31	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P32	1	20	RCBO	2.5	KITCHEN	COOL ROOM	A	
P33	1	20	RCBO	2.5	KITCHEN	POS	A	
P34	1	20	RCBO	2.5	KITCHEN	REF	A	
P35	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A	
P36	3	20	RCBO	2.5	KITCHEN	10.8KW COMBI	A	
P37	3	20	RCBO	2.5	KITCHEN	10.8KW COMBI	A	
P38	3	40	RCBO	6.0	KITCHEN	20.5KS COMBI	A	
P39	1	20	RCBO	2.5	KITCHEN	REF	A	
P40	1	20	RCBO	2.5	KITCHEN	REF	A	
P41	1	25	RCBO	4.0	KITCHEN	PIZZA	A	

C3234a-0007(A).xls

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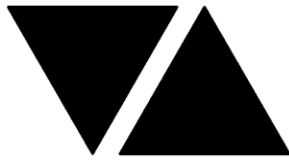
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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-C (LEVEL 1 NORTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0007(A).xls**

							REV
FAULT CURRENT:		6KA USING CASCADING			MAIN SWITCH:		400A NON AUTO LOAD BREAK
CHASSIS SIZE:		REFER TO THE DB-C SCHEMATIC			SUPPLIED FROM:		
CHASSIS RATING:		250A			SUPPLY CABLE:		
PHASES:		3			1C95		
REFER TO THE DB-C SCHEMATIC FOR ADDITIONAL CONFIGURATION REQUIREMTNS. 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. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
P42	1	20	RCBO	2.5	KITCHEN	REF	A
P43	1	20	RCBO	2.5	KITCHEN	REF	A
P44	3	32	RCBO	6.0	KITCHEN	17KW FRYER	A
P45	3	32	RCBO	6.0	KITCHEN	17KW FRYER	A
P46	3	32	RCBO	6.0	KITCHEN	17KW FRYER	A
P47	3	32	RCBO	6.0	KITCHEN	17KW FRYER	A
P48	3	32	RCBO	6.0	KITCHEN	17KW FRYER	A
P49	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A
P50	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A
P51	3	20	RCBO	2.5	KITCHEN	BAINE MARIE	A
P52	3	20	RCBO	2.5	KITCHEN	BAINE MARIE	A
P53	1	20	RCBO	2.5	KITCHEN	REF	A
P54	1	20	RCBO	2.5	KITCHEN	PLATE HEATER	A
P55	1	20	RCBO	2.5	KITCHEN	HEATLAMPS	A
P56	1	20	RCBO	2.5	BAR	GPO	A
P57	1	20	RCBO	2.5	BAR	MISTER CONTROL	A
P58	1	20	RCBO	2.5	BAR	GLASS WASHER	A
P59	1	20	RCBO	2.5	BAR	GLASS WASHER	A
P60	1	20	RCBO	2.5	BAR	GPO	A
P61	1	20	RCBO	2.5	BAR	REF	A
P62	1	20	RCBO	2.5	BAR	POS	A
P63	1	20	RCBO	2.5	BAR	REF	A
P64	1	20	RCBO	2.5	BAR	REF	A
P65	1	20	RCBO	2.5	BAR	15A GPO	A
P66	1	20	RCBO	2.5	BAR	REF	A
P67	1	20	RCBO	2.5	BAR	WATER	A
P68	1	20	RCBO	2.5	ROOF	ROOF SYSTEM	A
P69	1	20	RCBO	2.5	ROOF	ROOF SYSTEM	A
P70	1	20	RCBO	2.5	ROOF	HWS PUMP	A
P71	1	20	RCBO	2.5	ROOF	HWS	A
P72	1	20	RCBO	2.5	ROOF	MAINTAINENCE	A
P73	1	20	RCBO	2.5	TERRACE	MIST FANS	A
P74	1	20	RCBO	2.5	TERRACE	MIST FANS	A
P75	1	20	RCBO	2.5	COURTYARD	MIST FANS	A
P76	1	20	RCBO	2.5	COURTYARD	MIST FANS	A
P77	1	20	RCBO	2.5	LEVEL 2	WAITERS	A
P78	1	20	RCBO	2.5	KITCHEN	15A GPO	A



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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-C (LEVEL 1 NORTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0007(A).xls**

FAULT CURRENT: 6KA USING CASCADING							MAIN SWITCH: 400A NON AUTO LOAD BREAK	REV A A A A
CHASSIS SIZE: REFER TO THE DB-C SCHEMATIC							SUPPLIED FROM: MSB	
CHASSIS RATING: 250A							SUPPLY CABLE: 1C95	
PHASES: 3								
REFER TO THE DB-C SCHEMATIC FOR ADDITIONAL CONFIGURATION REQUIREMTNS. 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. PROVIDE AN ENERGY MONITORING SYSTEM OF THE LIGHTING CHASSIS AND POWER CHASSIS 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								A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE		
L1	1	20	RCBO	2.5	LEVEL 2	SIGN	A	
L2	1	20	RCBO	2.5	LEVEL 2	SIGN	A	
L3	1	20	RCBO	2.5	LEVEL 2	KITCHEN	A	
L4	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L5	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L6	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L7	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L8	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L9	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L10	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L11	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L12	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L13	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L14	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L15	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L16	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L17	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	
L18	1	20	RCBO	2.5	TERRACE	HEATER	A	
L19	1	20	RCBO	2.5	TERRACE	HEATER	A	
L20	1	20	RCBO	2.5	TERRACE	HEATER	A	
L21	1	20	RCBO	2.5	TERRACE	HEATER	A	
L22	1	20	RCBO	2.5	TERRACE	HEATER	A	
L23	1	20	RCBO	2.5	TERRACE	HEATER	A	
L24	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L25	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L26	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L27	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L28	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L29	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L30	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L31	1	20	RCBO	2.5	COURTYARD	HEATER	A	
L32	1	20	RCBO	2.5	LEVEL 2	LIGHTS	A	



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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-D (LEVEL 1 SOUTH)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0008(A).xls**

FAULT CURRENT: 6KA USING CASCADING							REV
MAIN SWITCH: 100A NON AUTO LOAD BREAK							A
CHASSIS SIZE: 48 POLES							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C16							A
PHASES: 3							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 FUTURE CAFE EMERGENCY LIGHTS.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	CAFE	NTD	A
P2							A
P3							A
P4							A
P5							A
P6							A
P7							A
L1	1	20	RCBO	2.5	CAFE	SIGN	A



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**C3234a - 185 SAMFORD ROAD, ENOGGERA**  
**DISTRIBUTION BOARD DB-E (INTEGRAL TO THE MSB)**  
**REVISION A - 02 OCTOBER 2024**

**C3234a-0009(A).xls**

							REV
FAULT CURRENT: 6KA USING CASCADING							A
MAIN SWITCH: 100A NON AUTO LOAD BREAK							A
CHASSIS SIZE: 60 POLES							A
SUPPLIED FROM: MSB							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C25							A
PHASES: 3							A
PROVIDE THE DB WITH TWO FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
P1							A
P2							A
P3							A
P4							A
P5							A



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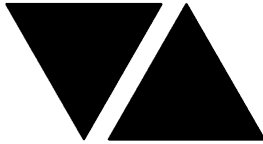
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DISTRIBUTION BOARD DB-R (LEVEL 0 LOADING DOCK)

REVISION A - 02 OCTOBER 2024

FAULT CURRENT: 6KA USING CASCADING  CHASSIS SIZE: 60 POLES  CHASSIS RATING: 250A  PHASES: A  MAIN SWITCH: 100A NON AUTO LOAD BREAK  SUPPLIED FROM: MSB  SUPPLY CABLE: 4C25							REV
							A
							A
							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS INCLUDING THE DYNALITE EQUIPMENT PROVIDED AS PART OF THE INITIAL FITOUT.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
P1	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P2	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P3	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P4	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P5	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P6	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A
P7	3	20	RCBO	2.5	LOADING	REF COMPRESSOR	A



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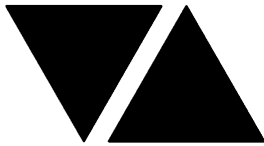
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## LIGHTING CONTROL SCHEDULE

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MISCELLANEOUS EQUIPMENT				REV	
ITEM	DESCRIPTION			A	
SP1	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP2	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP3	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP4	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP5	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP6	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP7	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP8	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP9	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP10	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP11	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP12	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP13	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP14	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP15	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
SP16	AS DETAILED IN THE EQUIPMENT SCHEDULE 6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY DYNALITE ANTUMBRA DISPLAY ALUMINIUM			A	
PE CELL	PROGRAMMABLE PE CELL DUS 90CS CONFIRM THE LOCATION ON SITE WITH THE ARCHITECT			A	
TIME CLOCK	PROGRAMMABLE TIME CLOCK ENVISION GATEWAY PDEG C/W INTERNET ACCESS LOCATE DB-B			A	
CONTROL MODULE 1				A	
TYPE:		DYNALITE DDMC802		A	
DESCRIPTION		8 CHANNEL MULTIPURPOSE CONTROLLER		A	
LOCATION		DIN RAIL MOUNTED WITHIN DB-A		A	
BUS:		A		A	
CHANNEL	CONTROL	DESCRIPTION		A	
		LOCATION	CIRCUIT	USE	A
A1	SWITCH		DB-A- L1	ENTRY	A
A2	SWITCH		DB-A- L1	KITCHEN	A
A3	SWITCH		DB-A- L2	SIGN	A
A4	SWITCH		DB-A- L2	SIGN	A
A5	SWITCH		DB-A- L2	CORIDOR	A
A6	SWITCH		DB-A- L2	SIGN	A
A7	SWITCH		DB-A- L2	SIGN	A
A8					A



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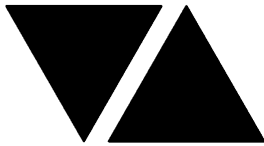
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LIGHTING CONTROL SCHEDULE

REVISION A - 02 OCTOBER 2024

<b>CONTROL MODULE 2</b>					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-A			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
A9	DALI DIM		DB-A- L3	L9	A
A10	DALI DIM		DB-A- L4	L6	A
A11	DALI DIM		DB-A- L4	L6	A
A12	DALI DIM		DB-A- L4	L6	A
A13	DALI DIM		DB-A- L3	L17	A
A14					A
A15					A
A16					A
A17					A
A18					A
A19					A
A20					A
<b>CONTROL MODULE 3</b>					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-B			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUITS	USE	A
B1	DALI DIM		DB-B - L3	L16	A
B2	DALI DIM		DB-B - L3	L16	A
B3	DALI DIM		DB-B - L3	L16	A
B4	DALI DIM		DB-B - L3	L16	A
B5	DALI DIM		DB-B - L6	RDL2 L20	A
B6	DALI DIM		DB-B - L6	S1	A
B7	DALI DIM		DB-B - L6	WL2	A
B8	DALI DIM		DB-B - L5	WL2	A
B9	DALI DIM		DB-B - L5	S1	A
B10	DALI DIM		DB-B - L5	RDL2 L20	A
B11	DALI DIM		DB-B - L24	L16	A
B12					A
<b>CONTROL MODULE 4</b>					A
TYPE:		DYNALITE DDMC802			A
DESCRIPTION		8 CHANNEL MULTIPURPOSE CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-B			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUITS	USE	A
B13	SWITCHED		DB-B - L4		A
B14	SWITCHED		DB-B - L9		
B15					
B16					
B17					
B18					
B19					
B20					





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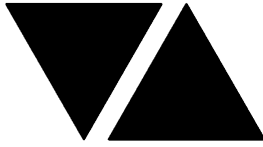
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LIGHTING CONTROL SCHEDULE

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CONTROL MODULE 5					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-B			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
B25	DALI DIM		DB-B - L7	WL5	A
B26	DALI DIM		DB-B - L7	RDL2 L20	A
B27	DALI DIM		DB-B - L7	WL5	A
B28	DALI DIM		DB-B - L7	WL3	A
B29	DALI DIM		DB-B - L7	RDL2 L20	A
B30	DALI DIM		DB-B - L8	WL1	A
B31	DALI DIM		DB-B - L8	SDL2	A
B32	DALI DIM		DB-B - L8	SDL2	A
B33	DALI DIM		DB-B - L9	SDL2	A
B34	DALI DIM		DB-B - L9	S1	A
B35	DALI DIM		DB-B - L9	WL1	A
B36	DALI DIM		DB-B - L10	L17	A
CONTROL MODULE 6					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-B			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
B37	DALI DIM		DB-B - L11	L6	A
B38	DALI DIM		DB-B - L11	WL1	A
B39	DALI DIM		DB-B - L11	L6	A
B40	DALI DIM		DB-B - L11	L6	A
B41	DALI DIM		DB-B - L11	L6	A
B42	DALI DIM		DB-B - L11	L5	A
B43	DALI DIM		DB-B - L12	L5	A
B44	DALI DIM		DB-B - L12	WL1	A
B45	DALI DIM		DB-B - L18	L2	A
B46	DALI DIM		DB-B - L18	L2	A
B47	DALI DIM		DB-B - L18	L2	A
B48	DALI DIM		DB-B - L18	L2	A
CONTROL MODULE 7					A
TYPE:		DYNALITE DDRC1220FR-GL			A
DESCRIPTION		12CH 20 A FEEDTHROUGH RELAY CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-B			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
B49	SWITCHED		DB-B - L13	L7	A
B50	SWITCHED		DB-B - L14	L3	A
B51	SWITCHED		DB-B - L15	L3	A
B52	SWITCHED		DB-B - L16	L3	A
B53	SWITCHED		DB-B - L17	L3	A
B54	SWITCHED		DB-B - L18	L3	A
B55	SWITCHED		DB-B - L19	L3	A
B56	SWITCHED		DB-B - L20	SIGN	A
B57	SWITCHED		DB-B - L21	SIGN	A
B58	SWITCHED		DB-B - L22	L10 L11	A
B59	SWITCHED		DB-B - L23	L10 L11	A
B60					A



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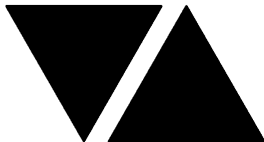
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LIGHTING CONTROL SCHEDULE

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<b>CONTROL MODULE 8</b>					A
TYPE:		DYNALITE DDMC802			A
DESCRIPTION		8 CHANNEL MULTIPURPOSE CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-C			A
BUS:		A			A
<b>CHANNEL</b>	<b>CONTROL</b>	<b>DESCRIPTION</b>			A
		<b>LOCATION</b>	<b>CIRCUIT</b>	<b>USE</b>	A
C1	SWITCHED		DB-C - L1	SIGN	A
C2	SWITCHED		DB-C - L2	SIGN	A
C3	SWITCHED		DB-C - L6	KITCHEN	A
C4					A
C5					A
C6					A
C7					A
C8					A
<b>CONTROL MODULE 9</b>					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-C			A
BUS:		A			A
<b>CHANNEL</b>	<b>CONTROL</b>	<b>DESCRIPTION</b>			A
		<b>LOCATION</b>	<b>CIRCUIT</b>	<b>USE</b>	A
C13	DALI DIM		DB-C - L3	S2	A
C14			DB-C - L3	L6	A
C15			DB-C - L4	L6	A
C16			DB-C - L4	L6	A
C17			DB-C - L4	L6	A
C18			DB-C - L5	S3	A
C19			DB-C - L7	SDL2	A
C20			DB-C - L7	WL1	A
C21			DB-C - L8	S5	A
C22			DB-C - L8	S6	A
C23			DB-C - L8	RDL1	A
C24			DB-C - L8	RDL1	A
<b>CONTROL MODULE 10</b>					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-C			A
BUS:		A			A
<b>CHANNEL</b>	<b>CONTROL</b>	<b>DESCRIPTION</b>			A
		<b>LOCATION</b>	<b>CIRCUIT</b>	<b>USE</b>	A
C25	DALI DIM		DB-C - L8	SDL2	A
C26	DALI DIM		DB-C - L8	PL4	A
C27	DALI DIM		DB-C - L9	WL3	A
C28	DALI DIM		DB-C - L9	SDL2	A
C29	DALI DIM		DB-C - L9	WL3	A
C30					A
C31	DALI DIM		DB-C - L10	CAT	A
C32	DALI DIM		DB-C - L10	SDL2	A
C33	DALI DIM		DB-C - L10	WL1	A
C34	DALI DIM		DB-C - L10	PL5	A
C35					A
C36					A



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LIGHTING CONTROL SCHEDULE

REVISION A - 02 OCTOBER 2024

CONTROL MODULE 11					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-C			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
C37	DALI DIM		DB-C - L11	SDL2	A
C38	DALI DIM		DB-C - L11	WL5	A
C39	DALI DIM		DB-C - L11	SDL2	A
C40	DALI DIM		DB-C - L11	PL1	A
C41	DALI DIM		DB-C - L11	TL1	A
C42	DALI DIM		DB-C - L12	SDL2	A
C43	DALI DIM		DB-C - L12	WL1	A
C44	DALI DIM		DB-C - L12	SDL2 RDL2	A
C45	DALI DIM		DB-C - L13	RDL1	A
C46	DALI DIM		DB-C - L13	RDL1	A
C47	DALI DIM		DB-C - L13	WL3	A
C48					A
CONTROL MODULE 12					A
TYPE:		DYNALITE DDBC1200			A
DESCRIPTION		12CH BOARD CAST DALI CONTROLLER			A
LOCATION		DIN RAIL MOUNTED WITHIN DB-C			A
BUS:		A			A
CHANNEL	CONTROL	DESCRIPTION			A
		LOCATION	CIRCUIT	USE	A
C49	DALI DIM		DB-C - L14	WL4	A
C50	DALI DIM		DB-C - L14	RDL1	A
C51	DALI DIM		DB-C - L14	RDL1	A
C52	DALI DIM		DB-C - L15	RDL1	A
C53	DALI DIM		DB-C - L16	SDL1	A
C54	DALI DIM		DB-C - L16	WL5	A
C55	DALI DIM		DB-C - L17	WL5	A
C56	DALI DIM		DB-C - L17	PL2	A
C57	DALI DIM		DB-C - L17	RDL2	A
C58					A
C59					A
C60					A

LEGEND

	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	DOUBLE POWER OUTLET C/W INTEGRAL USB-A AND USB-C CHARGING POINTS, MOUNTED ABOVE BENCH.
	SPECIAL PURPOSE POWER OUTLET.
	SIGNAGE CONNECTION.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	CONDUIT ROUTE.
	ELECTRICAL SERVICES PIT, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	ELECTRICAL FLOOR BOX, TYPE AS NOTED.
	ONE-WAY LIGHT SWITCH.
	TWO-WAY LIGHT SWITCH.
	DAY LIGHT DETECTOR SWITCH.
	LIGHTING PROXIMITY DETECTOR SWITCH.
	MOVEMENT DETECTOR SWITCH.
	LIGHTING CONTROL SWITCH PANEL, TYPE AS NOTED.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	LIGHTING CONTROL CHANNEL REFERENCE.
	ELECTRICAL EQUIPMENT AS NOTED.
	RJ45 COMMUNICATIONS OUTLET.
	FIRE INDICATOR PANEL.
	FUSE.
	SINGLE PHASE.
	THREE PHASE.
	CURRENT TRANSFORMER C/W REMOVABLE LINK.
	FUSE LINK.
	COMBINED FUSE SWITCH.
	CIRCUIT BREAKER.
	ISOLATOR.
	RESIDUAL CURRENT DEVICE.
	CONTACTOR – NORMALLY OPEN.
	CONTACTOR – NORMALLY CLOSED.
	REVENUE METER TYPE 1.
	REVENUE METER TYPE 2.

LEGEND

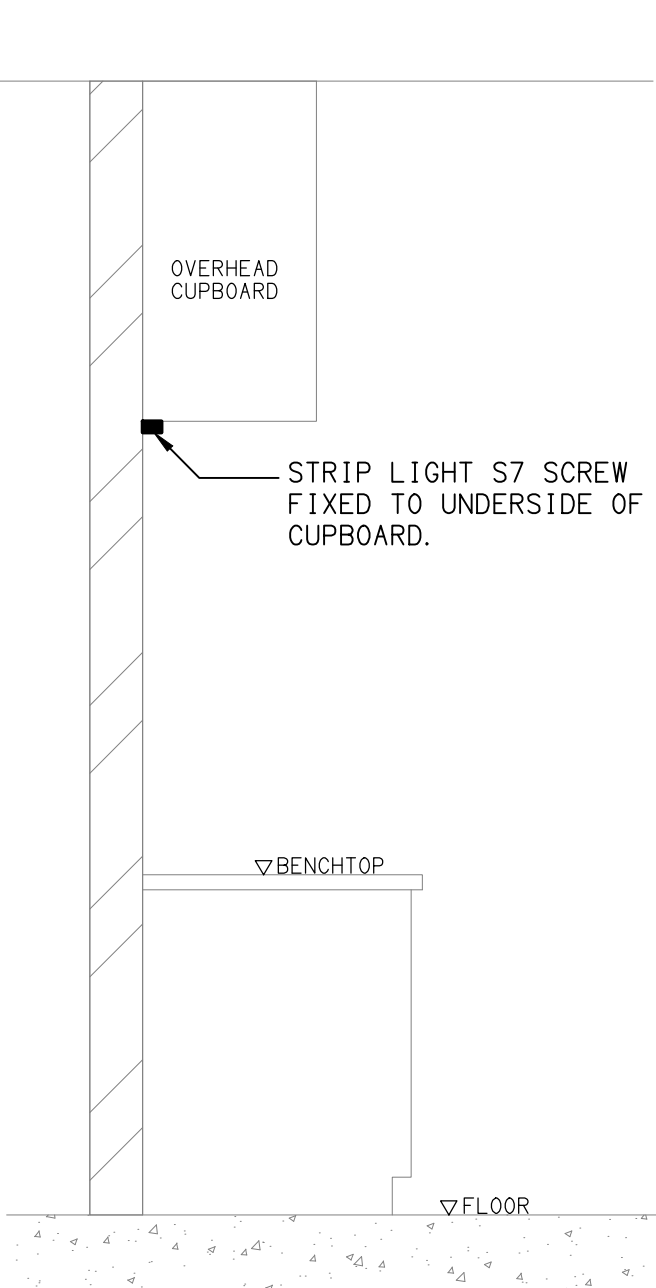
	ELECTRIC VEHICLE CHARGING METER.
	ENERGY MONITORING METER.
	MANUAL TRANSFER SWITCH.
	SECURITY CCTV POINT.
	SECURITY INTRUDER DETECTOR.
	ACCESS CONTROL CARD READER.
	ACCESS CONTROL EXIT PUSH BUTTON.
	ACCESS CONTROL DOOR MAGNETIC HOLDER.
	ACCESS CONTROL ELECTRIC STRIKE.
	ACCESS CONTROL DOOR REED SWITCH.
	ACCESS CONTROL ROLLER SHUTTER DOOR REED SWITCH.
	ACCESS CONTROL ARMING / DISARMING KEY PANEL.
	NBN PREMISE CONNECTION DEVICE.
	NBN NETWORK TERMINATION DEVICE.
	AUDIO OUTLET.
	4-INCH BACKGROUND MUSIC / PA SPEAKER.
	6.5-INCH BACKGROUND MUSIC / PA SPEAKER.
	8-INCH BACKGROUND MUSIC / PA SUBWOOFER SPEAKER.
	WALL MOUNTED BACKGROUND MUSIC / PA SPEAKER.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	SECURITY STROBE.
	PIZEO SIREN.
	FIRE ALARM VISUAL INDICATOR.
	MONITORED FLOW SWITCH.
	MONITORED VALVE.
	ASPIRATING SMOKE DETECTOR.
	RECESSED FIRE ALARM SPEAKER.
	SURFACE MOUNTED FIRE ALARM SPEAKER.
	FIRE ALARM HORN.
	E1: RECESSED NON-MAINTAINED EMERGENCY LIGHT.
	E2: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT.
	EX: GENERAL EMERGENCY LED EXIT LIGHT.
	EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: 1200 LONG SURFACE MOUNTED BATTEN, C/W NON-MAINTAINED EMERGENCY PACK.
	L2: SURFACE MOUNTED IP65 CARPARK LIGHT.
	L3: 1200 LONG SURFACE MOUNTED BATTEN.
	L4: 1200 LONG IP66 SURFACE MOUNTED BATTEN C/W MOVEMENT SENSOR.
	L5: SURFACE CAN DOWNLIGHT, DIMMABLE.

LEGEND

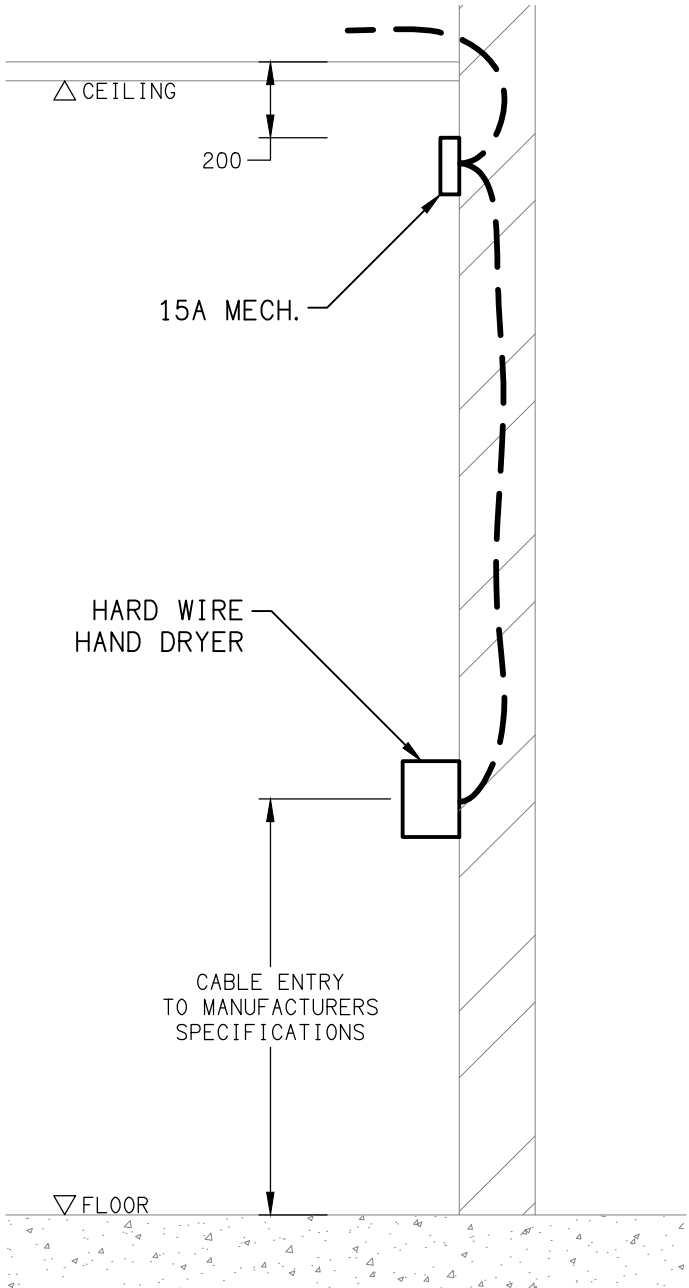
	L6: GARDEN STAKE FITTING, DIMMABLE.
	L7: SURFACE MOUNTED GROW LIGHTS.
	L8: INGROUND IP67 ADJUSTABLE UPLIGHT, DIMMABLE.
	L9: EXTERNAL WALL LIGHT, DIMMABLE.
	L10: 45W CARPARK POLE LIGHT, PARAPET MOUNTED 9m ABOVE CARPARK LEVEL.
	L11: 28W CARPARK POLE LIGHT, PARAPET MOUNTED 9m ABOVE CARPARK LEVEL.
	L12: 28W CARPARK POLE LIGHT, GROUND MOUNTED 9m ABOVE CARPARK LEVEL.
	L13: 600 x 300 RECESSED FLAT PLATE FITTING.
	L14: 1200 x 300 RECESSED FLAT PLATE FITTING.
	L15: AMENITY SHOWER RECESSED DOWNLIGHT.
	L16: SUSPENDED HIGH BAY FITTING, DIMMABLE.
	L17: SURFACE MOUNTED CAN DOWNLIGHT.
	L18: RECESSED DOWNLIGHT.
	L19: INTERNAL WALL LIGHT.
	L20: SURFACE MOUNTED ADJUSTABLE DOWNLIGHT.
	RDL1: RECESSED DOWNLIGHT, DIMMABLE.
	RDL2: RECESSED DOWNLIGHT, DIMMABLE.
	SDL1: SURFACE MOUNTED CUSTOM LIGHT, DIMMABLE.
	SDL2: SURFACE MOUNTED CAN DOWNLIGHT, DIMMABLE.
	WL1: EXTERNAL WALL LIGHT.
	WL2: EXTERNAL WALL LIGHT, DIMMABLE.
	WL3: INTERNAL WALL LIGHT, DIMMABLE.
	WL4: INTERNAL WALL LIGHT, DIMMABLE.
	WL5: INTERNAL WALL LIGHT.
	PL1: CUSTOM DECORATIVE PENDANT, DIMMABLE.
	PL2: 300 DIA BALL DECORATIVE PENDANT, DIMMABLE.
	PL3: NOT USED.
	PL4: CUSTOM DECORATIVE PENDANT, DIMMABLE.
	PL5: 300 DIA BALL DECORATIVE PENDANT, DIMMABLE.
	CAT: CATENARY / FESTOON LIGHTING.
	TL1: TABLE LAMP.
	Sx: CEILING / JOINERY STRIP LIGHT, TYPE AS NOTED.
	HE/C: SOFFIT FLUSH MOUNTED HEATER.
	HE/W: WALL MOUNTED ADJUSTABLE HEATER.
	H1: PENDANT HEAT LAMP.

ABBREVIATIONS

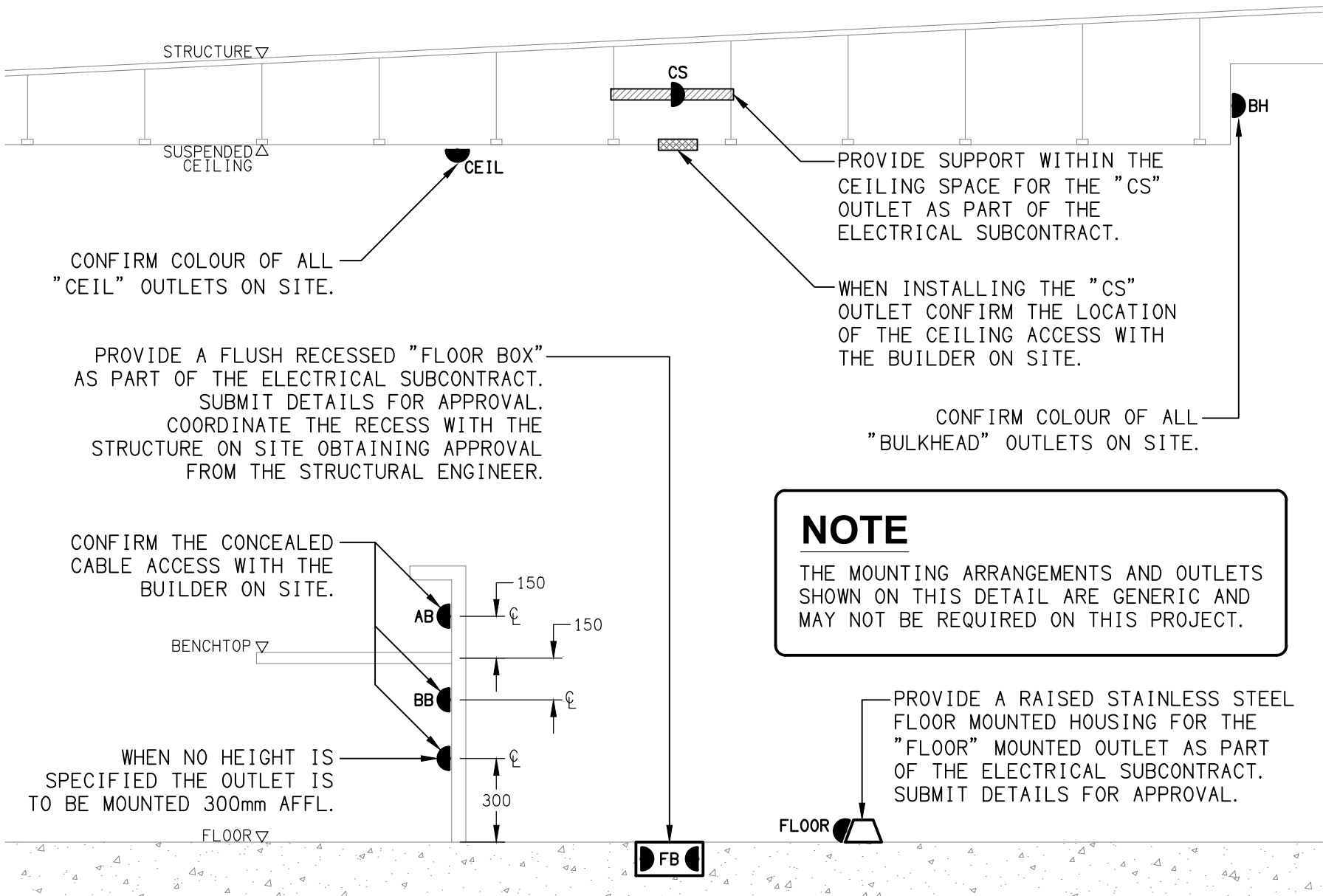
A	-	AMP CURRENT RATING
AB	-	MOUNT ABOVE BENCH.
AFFL	-	ABOVE FINISHED FLOOR LEVEL.
BB	-	MOUNT BELOW BENCH.
CEIL	-	MOUNT ON CEILING.
C/W	-	COMPLETE WITH.
HWS	-	HOT WATER SYSTEM.
MCB	-	MINIATURE CIRCUIT BREAKER.
MCCB	-	MOLDED CASE CIRCUIT BREAKER.
MSB	-	MAIN SWITCHBOARD.
N	-	NEON / LED INDICATOR WHEN ON.
NBN	-	NATIONAL BROADBAND NETWORK.
NTS	-	NOT TO SCALE.
QDC	-	QUEENSLAND DEVELOPMENT CODE.
RCBO	-	CIRCUIT BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.
RCD	-	CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.
RSD	-	ROLLER SHUTTER DOOR.
UNO	-	UNLESS NOTED OTHERWISE.
WAP	-	WIRELESS ACCESS POINT.
WP	-	WEATHERPROOF TO IP56 UNO.
500	-	NUMBER DENOTES MOUNTING HEIGHT AFFL.



DETAIL "S7" TYPE STRIP LIGHT MOUNTING  
NOT TO SCALE



DETAIL HAND DRYER CONNECTION  
NOT TO SCALE



DETAIL TYPICAL OUTLET MOUNTINGS  
NOT TO SCALE



NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT IS TO BE UNDERTAKEN AS A DESIGN AND CONSTRUCT CONTRACT WITH THE ELECTRICAL SUB-CONTRACTOR TAKING RESPONSIBILITY FOR ALL ASPECTS OF THE ELECTRICAL SERVICES DESIGN, DOCUMENTATION AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- DESIGN AND BUILDING APPROVAL CERTIFICATION.
- DESIGN DOCUMENTATION FOR APPROVAL.
- FOR CONSTRUCTION DOCUMENTATION.
- ELECTRICAL AUTHORITY APPLICATIONS, NEGOTIATIONS AND APPROVALS.
- 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.
- SECURITY
- CCTV CABLING.
- BACKGROUND MUSIC.
- FIRE ALARM 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.

THE CURRENT ELECTRICAL SERVICES DESIGN AND DOCUMENTATION HAS BEEN DEVELOPED TO BE 75% COMPLETE TO ALLOW THE SCOPE TO BE ESTABLISHED AND THE WORKS PRICED AS A DESIGN AND CONSTRUCT ELECTRICAL SUB CONTRACT. THE RESOLUTION OF THE DESIGN AND DOCUMENTATION IS TO BE UNDERTAKEN BY THE ELECTRICAL SERVICES SUB-CONTRACTOR AS PART OF THE WORKS. THIS RESOLUTION INCLUDES THOUGH IS NOT LIMITED TO ESTABLISHING / CONFIRMING AND RESOLVING THE REQUIREMENT OF THE FOLLOWING INCLUDING, SIZES, POSITIONS, CONNECTION TYPES, QUANTITIES ETC:

- FOOD AND BEVERAGE SERVICES
- REFRIGERATION SERVICES
- HYDRAULIC SERVICES
- LIFTS
- IRRIGATION
- SPRINKLER AND HYDRANT SERVICES
- ILLUMINATED AND DIGITAL SIGNAGE
- ARCHITECTURE INCLUDING JOINERY
- MECHANICAL SERVICES
- MISCELLANEOUS SYSTEMS INCLUDING THOUGH NOT LIMITED TO, MISTING SYSTEMS, ROLLER SHUTTER DOORS, AUTO DOORS, MOTORISED BLINDS, MOTORISED ROOF CLOSURE SYSTEM ETC.

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.

ON THE DAY THE FACILITY OPENS FOR TRADING THE ELECTRICAL SUB CONTRACTOR MUST PROVIDE AN ELECTRICIAN ON SITE FOR THE INITIAL 12 HOURS OF TRADING.

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.

NOTES

6. POWER DISTRIBUTION

ARRANGE WITH ENERGEX TO HAVE A 630 AMP SUPPLY PROVIDED TO THE SITE FROM THE EXISTING PADMOUNT SUBSTATION WITH THE EXISTING PADMOUNT SUBSTATION UPGRADED AS NECESSARY. PROVIDE CONSUMERS MAINS FROM THE SUBSTATION TO A NEW MAIN SWITCHBOARD.

THE MSB IS TO CONTAIN SPACE FOR FOUR THREE PHASE CIRCUIT BREAKERS, SPACE FOR ENERGY MONITORING EQUIPMENT AND 24 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. INTERFACE THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM TO DB-E. SUBMIT DETAILS OF THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM FOR APPROVAL.

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED MECHANICALLY FIXED TO THE WALL.
- NATIONAL ELECTRICITY MARKET (NEM) COMPLIANT RETAIL METERING FOR THE SITE WITH SEPARATE METERING FOR THE CAFE TENANCY (DB-D).
- PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE MSB.
- MANUAL GENERATOR CHANGE OVER FACILITY WITH A MECHANICAL INTERLOCK BETWEEN THE MAINS AND GENERATOR SUPPLY.
- FACILITY TO CONNECT TEMPORARY GENERATOR MAINS OF THE SAME SIZE AS THE CONSUMERS MAINS THROUGH THE MSB PIT TO THE CHANGE OVER FACILITY.
- IP66 FORM 4A1h
- 316 STAINLESS STEEL OR ALUMINIUM ENCLOSURE, DOORS AND ESCUTCHEONS.
- CUSTOM COLOUR POWDER COATED ENCLOSURE AND DOORS WITH THE ARCHITECT NOMINATING THE COLOUR. PROVIDE A FLASHING AROUND THE MSB TO THE SAME FINISH AS THE MSB DOORS SUCH THAT THERE ARE NO VISIBLE GAPS AROUND THE MSB.
- POWDER COATED GLOSS WHITE ESCUTCHEONS.
- ENSURE THE MSB IS DESIGNED TO OPERATE IN DIRECT SUNLIGHT WITH AN AMBIENT TEMPERATURE OF 45 DEGREES.
- 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.

DO NOT USE CORRUGATED CONDUIT UNDER ANY BARS, SERVERIES, OR IN THE KITCHENS. ALL OUTLETS AND SWITCHES WITHIN THE KITCHENS ARE TO BE IP56 SERIES OR STAINLESS STEEL.

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

- POWER DISTRIBUTION.
- ENERGEX NEGOTIATIONS AND APPLICATION.
- ENERGEX PADMOUNT SUBSTATION UPGRADE.
- RETAIL METERING.
- CONSUMERS MAINS.
- MAIN SWITCHBOARD.
- SUBMAINS.
- DISTRIBUTION BOARDS.
- PV SYSTEM INCLUDING THE ENERGEX APPLICATION.
- CABLE ACCESS WAYS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- 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.

PROVIDE PV PANELS WITH AN EFFICIENCY IN EXCESS OF 20% AND A MANUFACTURERS 15-YEAR PRODUCT WARRANTY AND A PERFORMANCE WARRANTY GUARANTYING 80% OF THE PANELS RATED OUTPUT AFTER 25 YEARS. PROVIDE AN INVERTER THAT HAS A WI FI INTERNET CONNECTION, A LOSS OF LESS THAN 5% AND A MANUFACTURERS PRODUCT WARRANTY OF 5 YEARS. PROVIDE THE PV SYSTEM DC AND AC CABLING THAT HAS A LESS THAN COMBINED LOSS LESS THAN 3%. PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF THE PV SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUT FOR APPROVAL.

THE FITOUT OF THE POWER SERVICES WITHIN THE CAFE TENANCY BEYOND THE PROVISION OF DB-D AND THE TWO CIRCUITS NOMINATED DOES NOT FORM PART OF THESE WORKS.

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.

PROVIDE DIMMING OF THE FRONT OF HOUSE LIGHTING UTILISING A PHILIPS DYNALITE CONTROL SYSTEM. ALL DIMMING IS TO BE VIA DALI. PHASE DIMMING (TRAILING EDGE OR LEADING EDGE IS NOT ACCEPTABLE) THE FRONT OF HOUSE LIGHTING CURRENTLY DETAILED HAS BEEN INCLUDED AS A BASE LINE THAT MUST BE ALLOWED FOR. UNDERTAKE A DESIGN PROCESS WITH ALL RELEVANT PARTIES TO FURTHER DEVELOP THE FRONT OF HOUSE LIGHTING TO THE SATISFACTION OF ALL PARTIES.

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

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM 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.)

NOTES

7. LIGHTING CONTINUED

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-3 IN ACCORDANCE WITH AS 2293.1.

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW NBN SERVICE TO THE SITE WITH A NBN NTDs ADJACENT CR-A AND A SECOND NBN NTD IN THE CAFETENANCY. ARRANGE FOR THE NBN SERVICES TO BE INSTALLED INCLUDING ALL CABLE ACCESS WAYS AND DOCUMENTATION IN ACCORDANCE WITH THE NBN REQUIREMENTS. THE FITOUT OF THE COMMUNICATIONS SERVICES WITHIN THE CAFETENANCY BEYOND THE PROVISION OF THE NBN NTD DOES NOT FORM PART OF THESE WORKS.

PROVIDE THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT AS A COMMSCOPE OR MOLEX CAT 6 INSTALLATION WITH A 15 YEAR MANUFACTURERS PERFORMANCE WARRANTY. THE COMMUNICATIONS CABLING IS TO BE RUN TO PATCH PANELS WITHIN RACK CR-A. RACK CR-B IS TO BE USED TO HOUSE THE CCTV PATCH PANELS AND CCTV ACTIVE EQUIPMENT. RACKS CR-C AND CR-D ARE TO HOUSE THE AUDIO-VISUAL 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 RACKS CR-A, CR-B, CR-C AND CR-D.
- PATCH PANELS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

IN ADDITION TO THE COMMUNICATIONS OUTLETS SHOWN ON THE 75% DRAWINGS ALLOW AN ADDITIONAL 24 COMMUNICATIONS OUTLETS WITH THE POSITIONS NOMINATED BY THE OPERATOR PRIOR TO ROUGHIN FOR WAPS, AUDIO CONTROLS ETC.

9. SECURITY.

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW INNER RANGE INTEGRITI INTRUDER DETECTION / ACCESS CONTROL SYSTEM.

CONFIGURE THE SECURITY SYSTEM TO OPERATE AS DIRECTED BY THE OPERATOR. PROVIDE FACILITY WITHIN THE OFFICE TO ALLOW MANAGEMENT STAFF TO ENCODE AND MANAGE PROXIMITY TAGS.

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

- CONTROLLERS, EXPANSION PANELS, HOUSINGS AND POWER SUPPLIES.
- REMOTE MONITORING VIA A CABLED INTERNET CONNECTION AND A CELLULAR CONNECTION.
- INTRUDER DETECTORS.
- REED SWITCHES.
- ARMING / DISARMING KEY PANEL.
- PIZEO SIRENS.
- SATELLITE STROBE.
- CARD READERS.
- 100 PROXIMITY TAGS.
- EXIT PUSH BUTTONS.
- ELECTRIC STRIKES.
- MAGNETIC DOOR HOLDERS.
- FIRE ALARM SYSTEM INTERFACE.
- ROLLER SHUTTER DOOR INTERFACES.
- SOFTWARE AND ALL NECESSARY LICENCES.
- PROXIMITY TAG ENCODING FACILITY.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

10. CCTV CABLING.

THE CCTV CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF CAT 6 CABLING TO ALLOW POE CCTV CAMERA INSTALLATION TO BE COMPLETED BY THE OPERATORS SPECIALIST CAMERA CONTRACTOR. THE CCTV CAT 6 CABLING IS TO BE OF THE SAME SPECIFICATION AS THE COMMUNICATIONS CABLE RUN IN A DIFFERENT COLOUR TO DEDICATED PATCH PANELS IN CR-B.

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

- PATCH PANELS.
- CAT 6 COMMUNICATIONS CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

11. BACKGROUND MUSIC.

THE BACKGROUND MUSIC COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF ZONED SPEAKERS AND AUDIO INPUTS RUN TO RACK CR-C TO ALLOW THE BACKGROUND MUSIC INSTALLATION TO BE COMPLETED BY THE OPERATORS SPECIALIST AV CONTRACTOR. THE BACKGROUND MUSIC COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

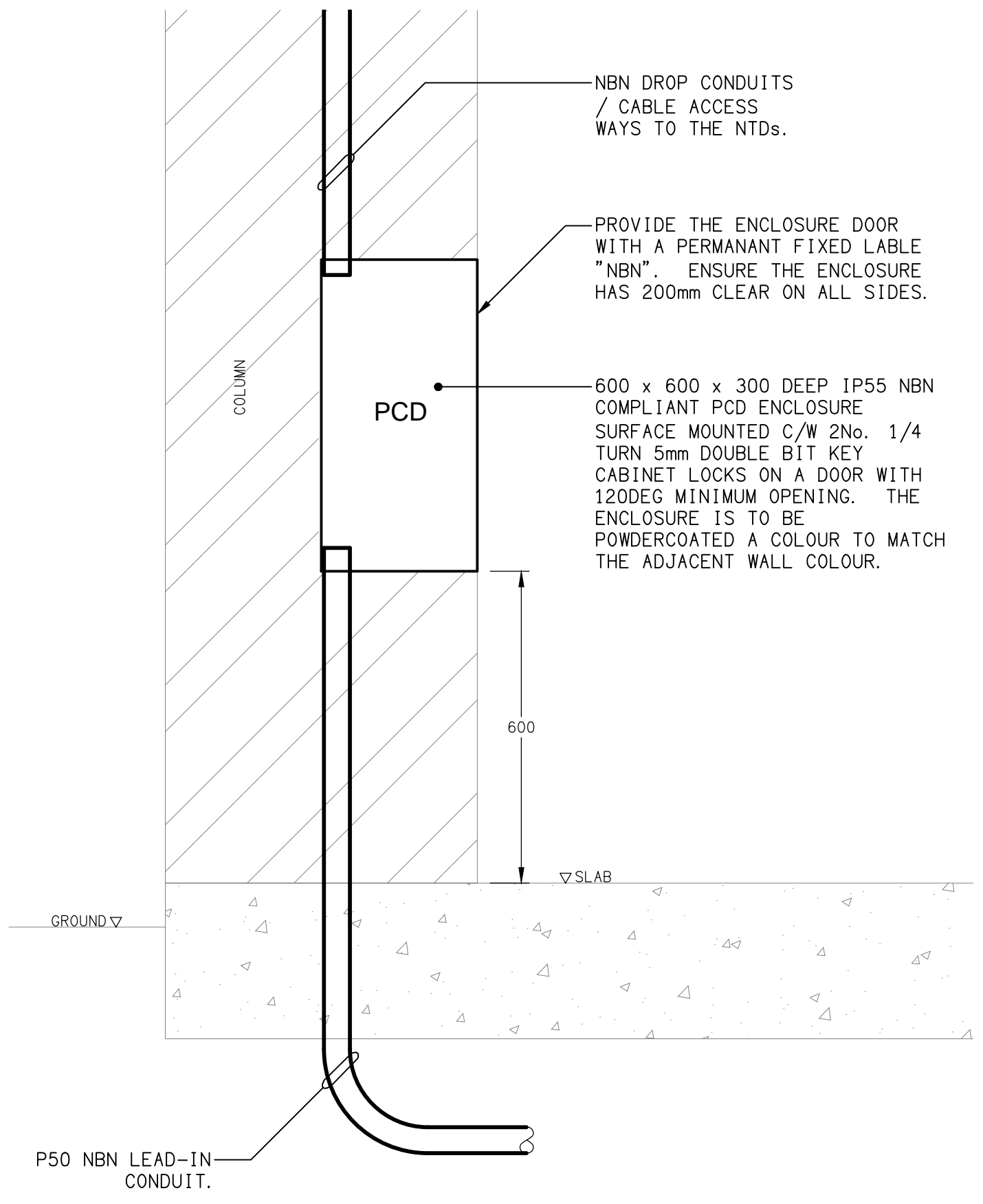
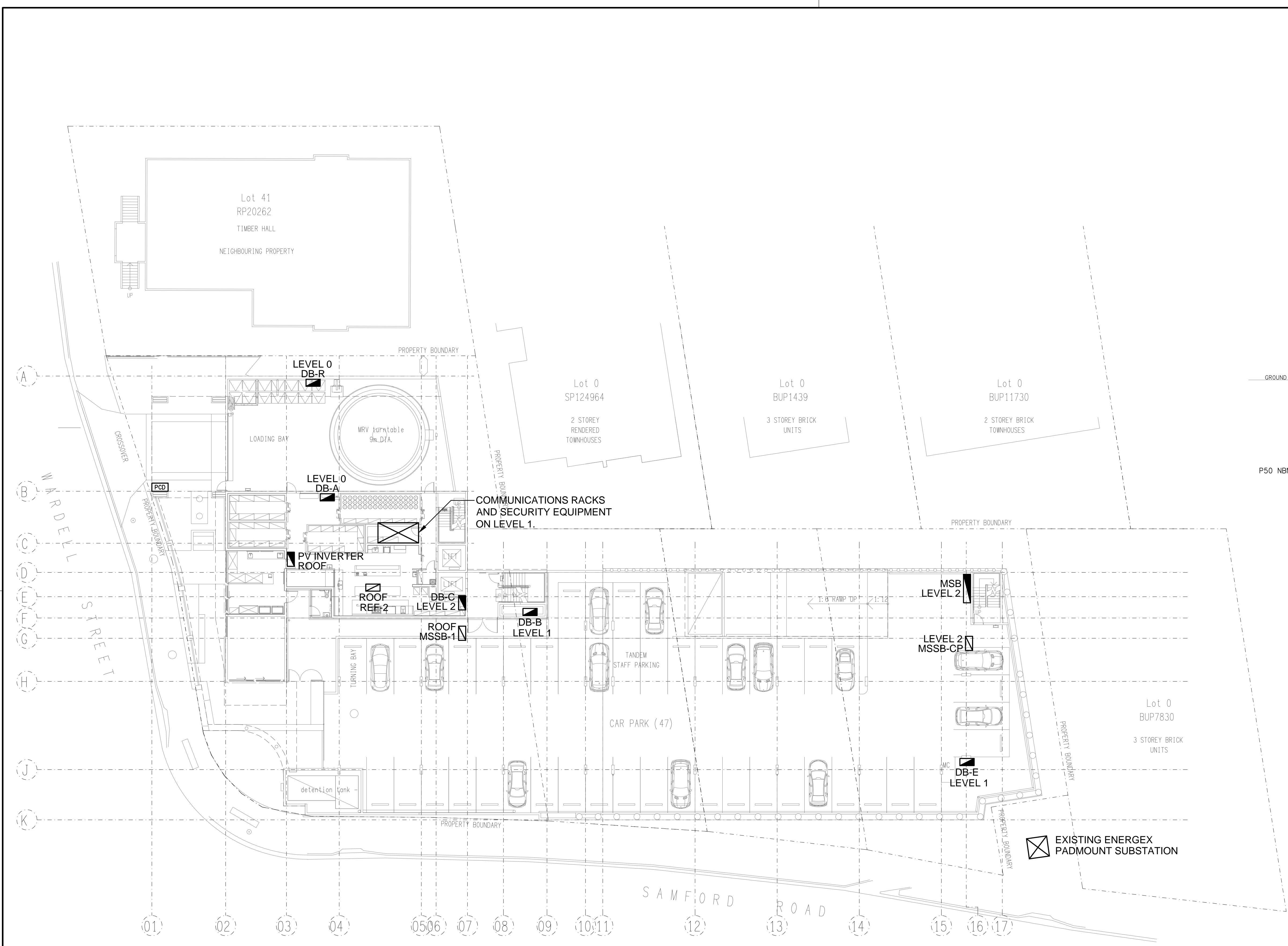
- SPEAKERS.
- AUDIO INPUTS.
- SPEAKER CABLING.
- AUDIO INPUT CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

12. FIRE ALARM SYSTEM.

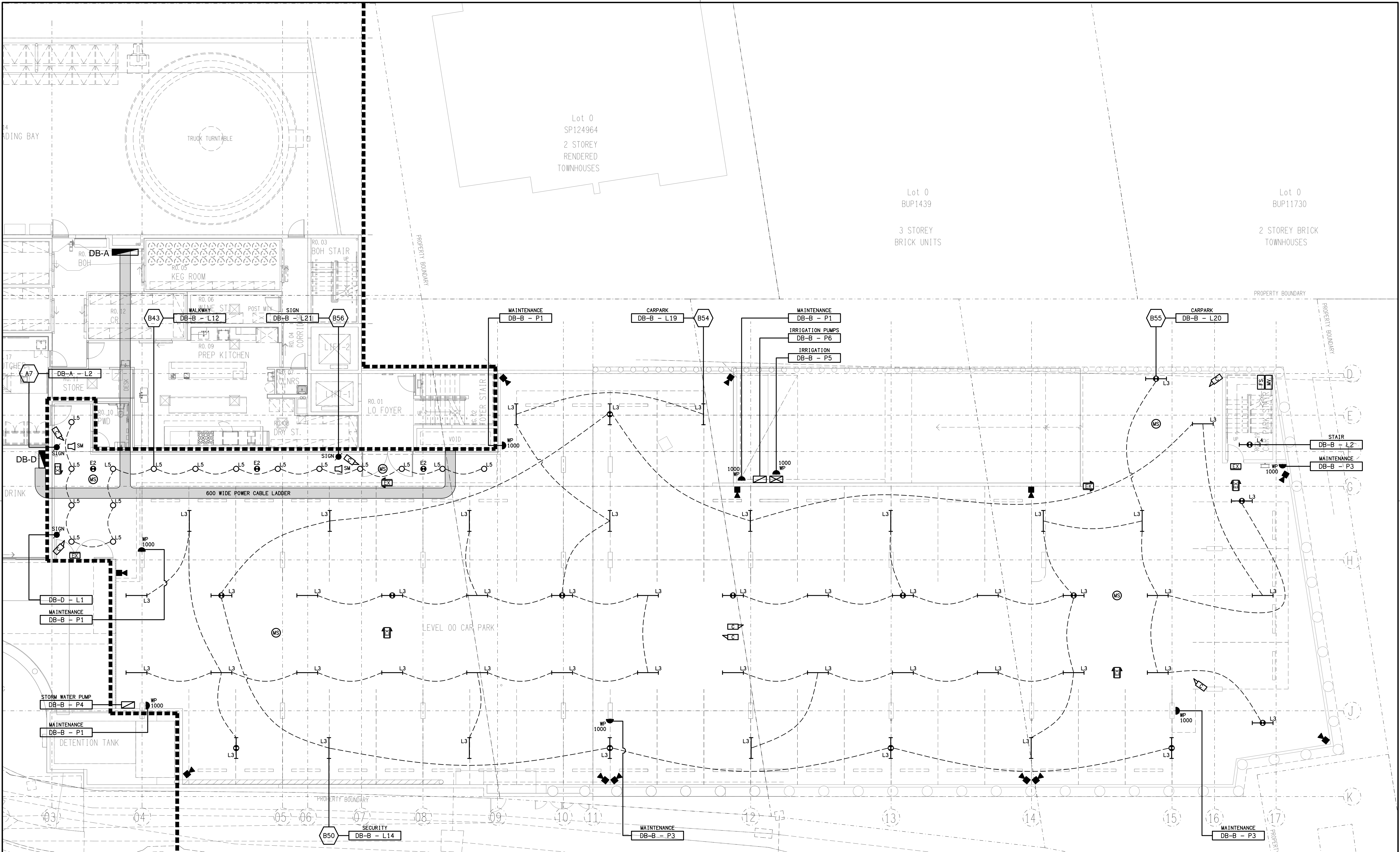
THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF AN AS1670.1 ALARM SYSTEM IN ACCORDANCE WITH THE FIRE ENGINEERING REPORT. THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- 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.
- INTERFACE TO THE KITCHEN GAS CONTROL SYSTEMS.
- INTERFACE TO THE SECURITY SYSTEM TO UNLOCK THE DOORS ON ALARM.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

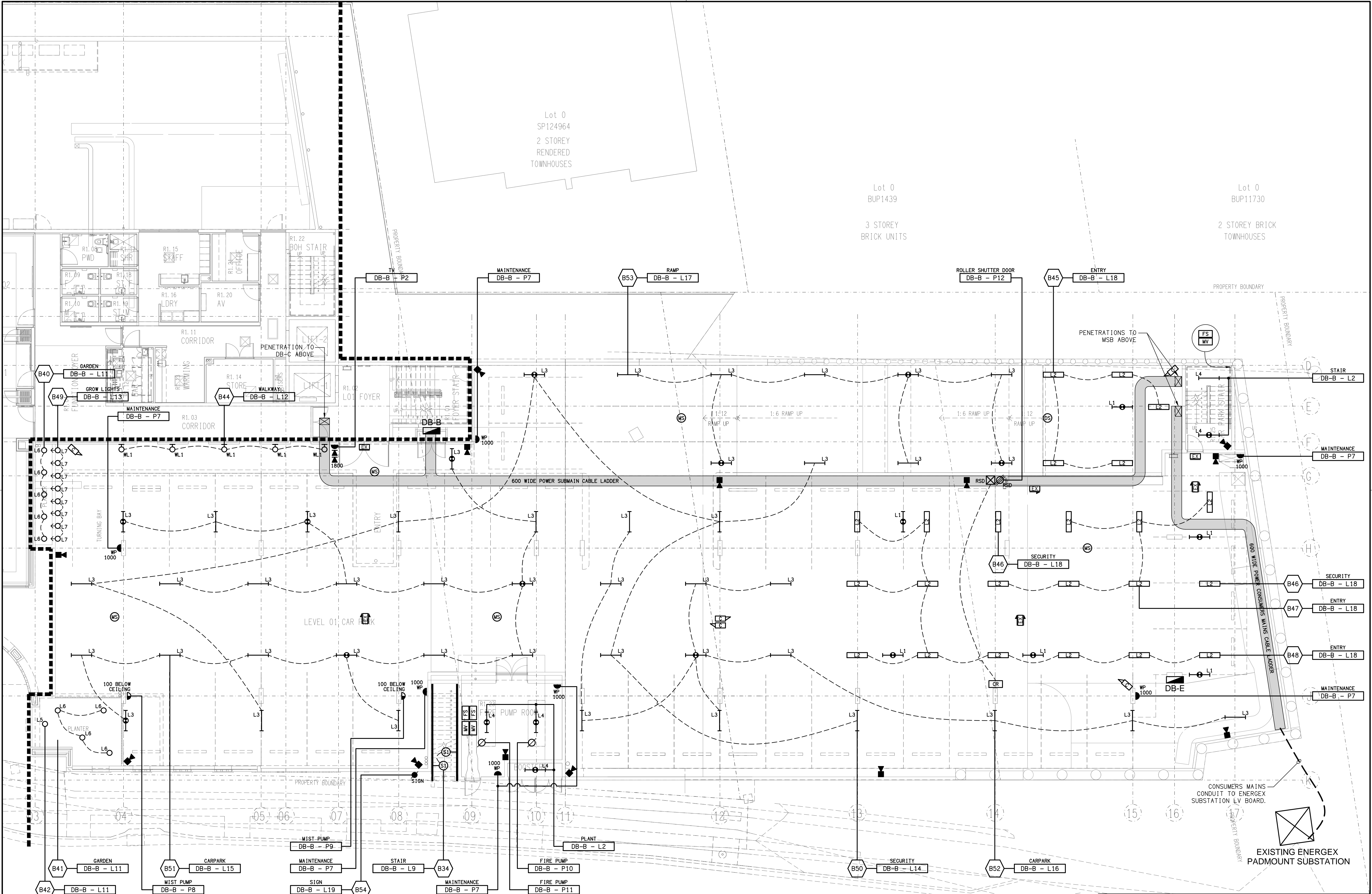
ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793		THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.		PROJECT: 185 SAMFORD ROAD, ENOGGERA		B 75% DEVELOPMENT 02/10/2024	
TRADING AS: ELECTRICAL DESIGN GROUP		USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		DRAWING: ELECTRICAL SERVICES NOTES		REV: DESCRIPTION: DATE:	
ALL DIMENSIONS TO BE VERIFIED ONSITE.		P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au		-		SCALE: NOT TO SCALE AT A1	
		ELECTRICAL DESIGN GROUP		PROJECT NO: C3234a		DRAWING NO: E02	
						REVISION: B	



**DETAIL A**  
PCD MOUNTING SECTION  
NOT TO SCALE

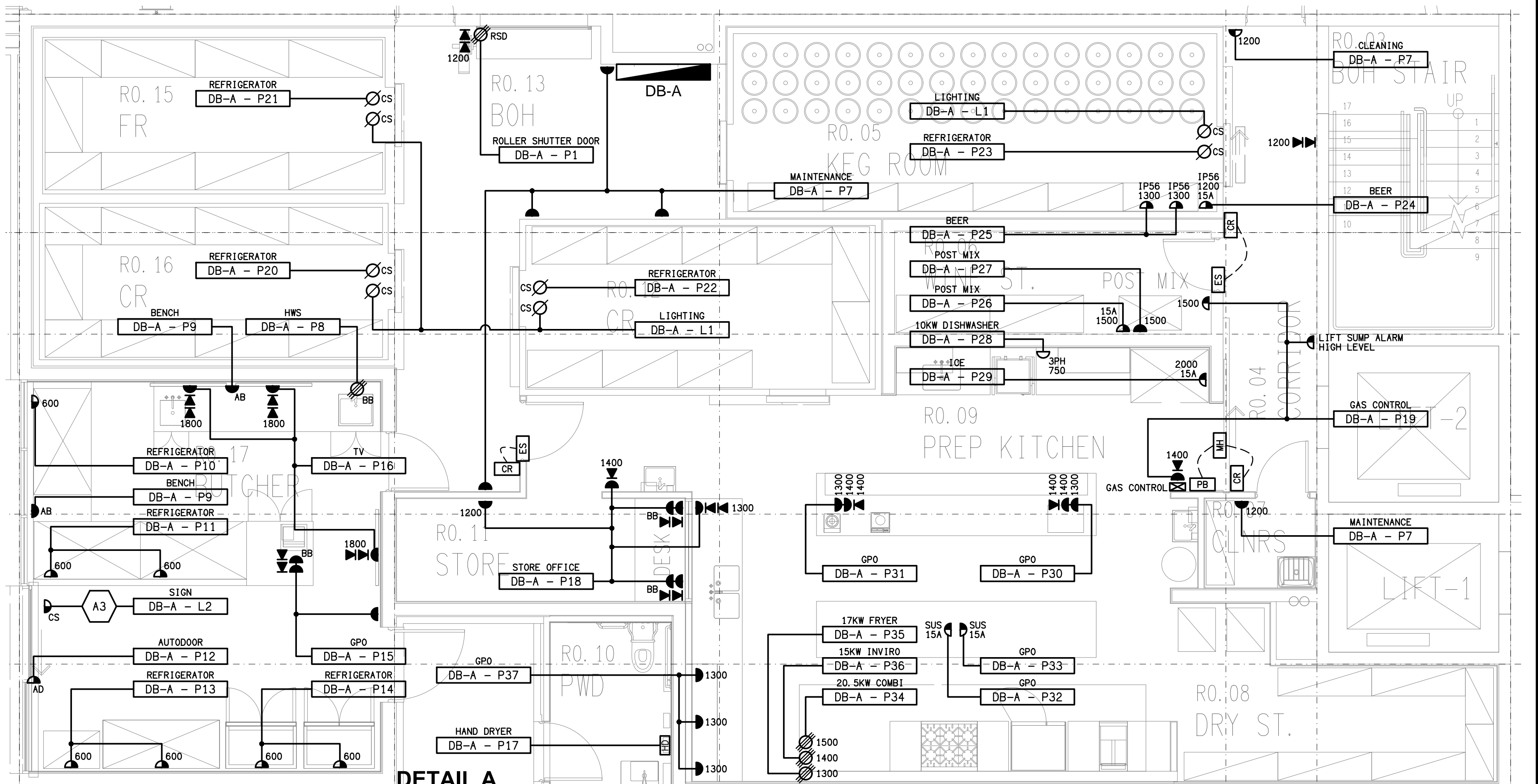




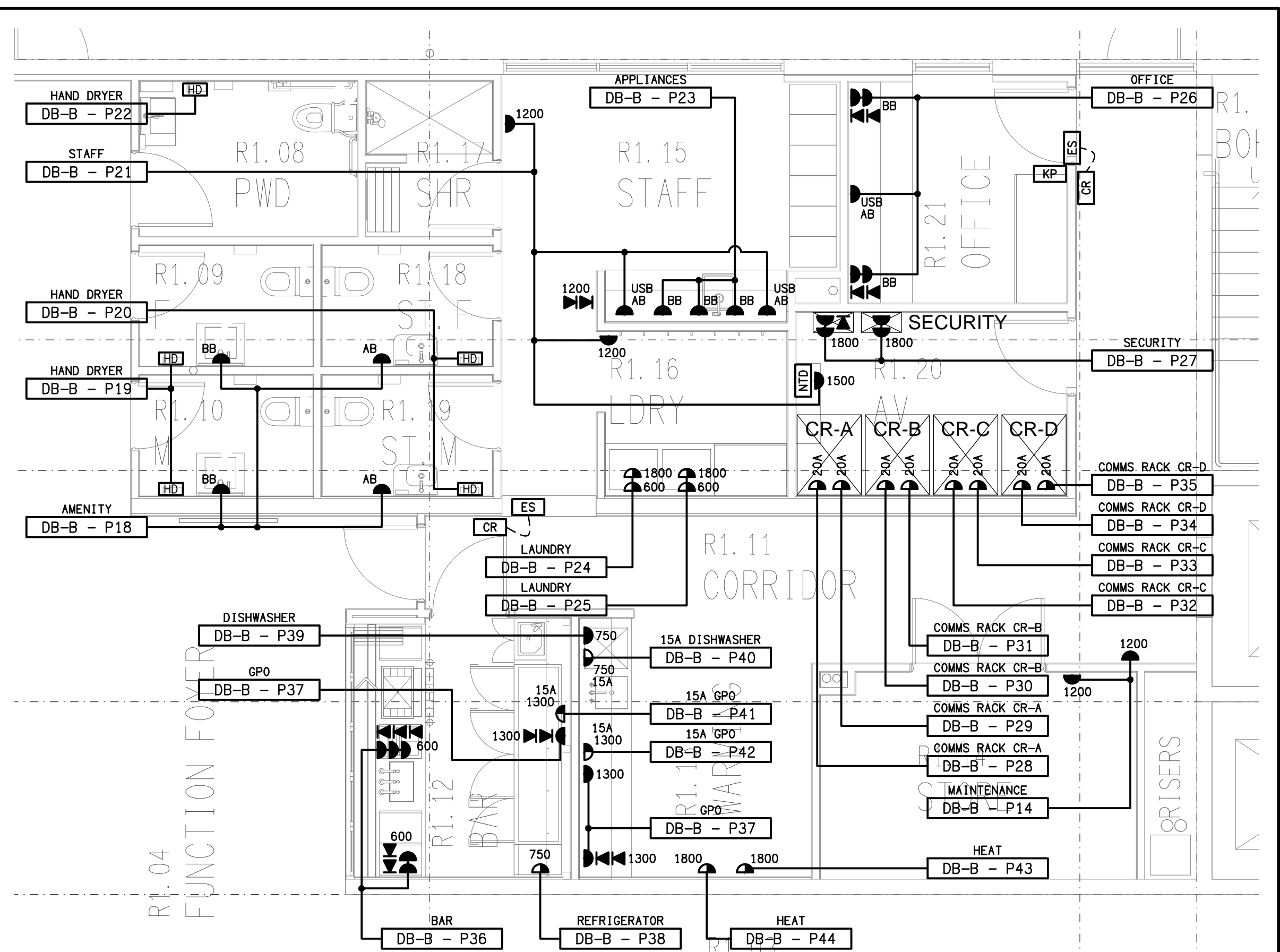








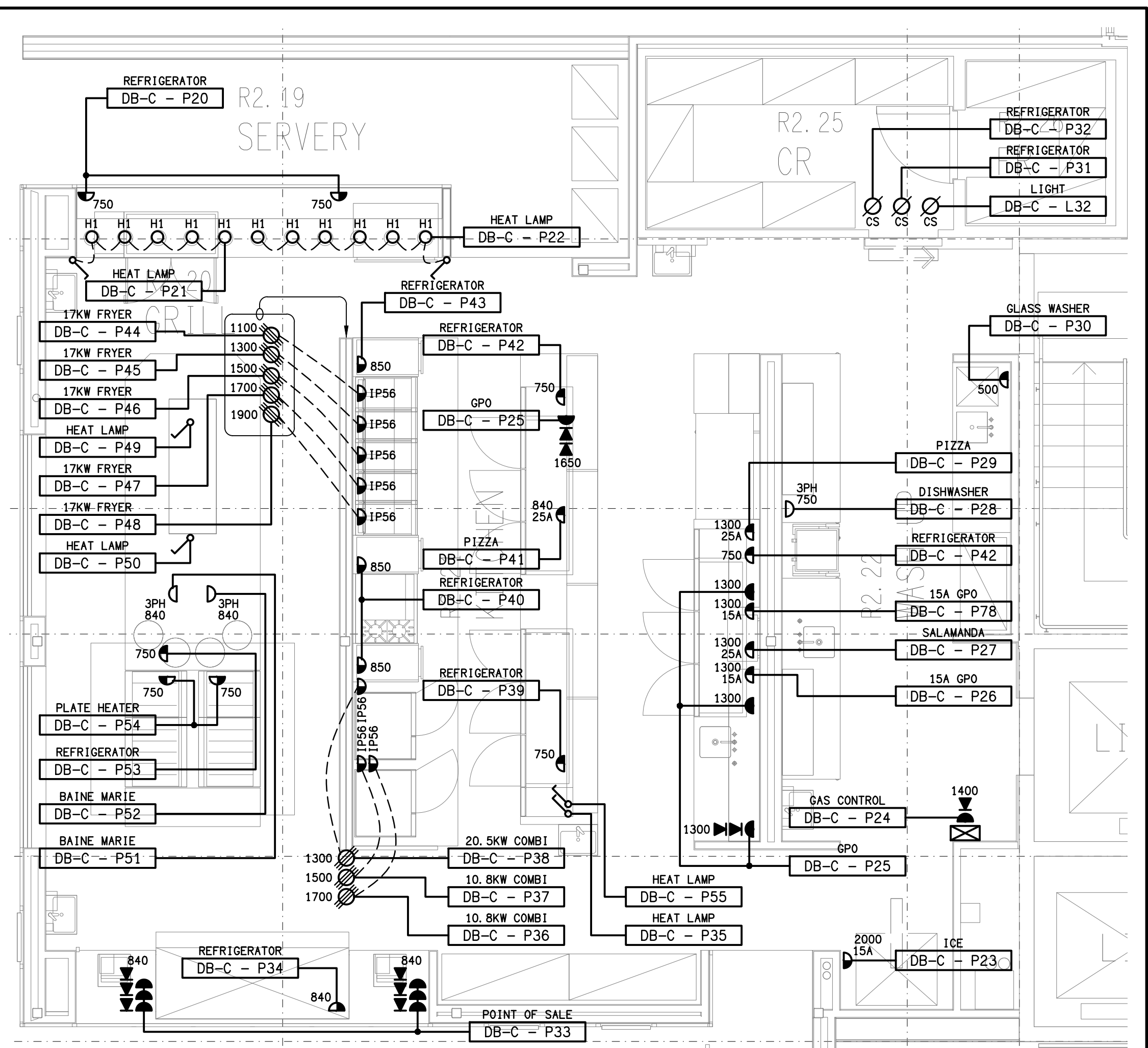
DRAWING:			
<b>ELECTRICAL SERVICES</b>			
LEVEL 0			
FLOOR PLAN			
SCALE:	PROJECT NO:		
1:100 UNO	C3234a		
AT A1	DRAWING NO:		REVISION:
	E07		B



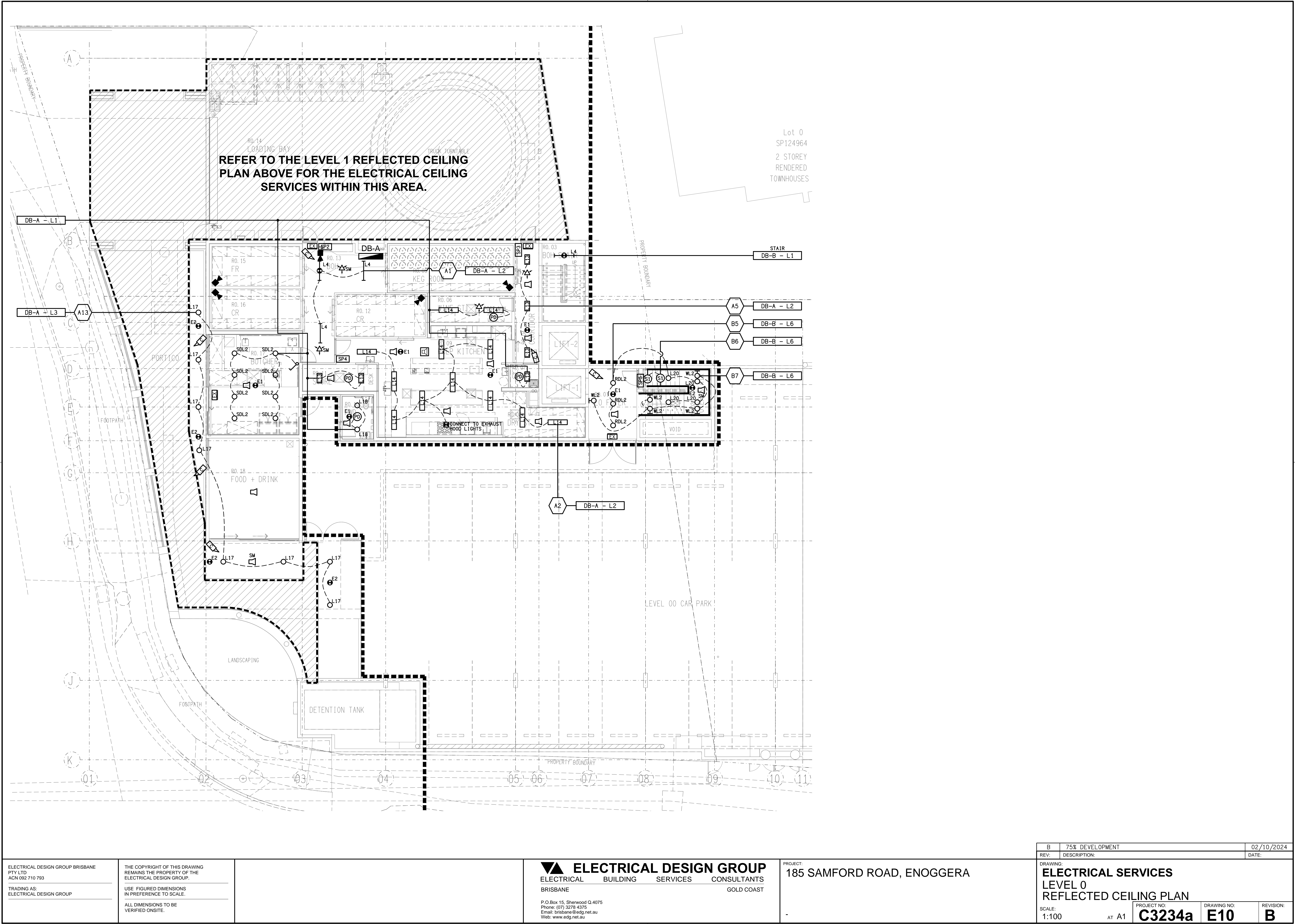
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B	75% DEVELOPMENT	02/10/2024
REV:	DESCRIPTION:	DATE:
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		DRAWING NO: <b>E08</b>
		REVISION: <b>B</b>



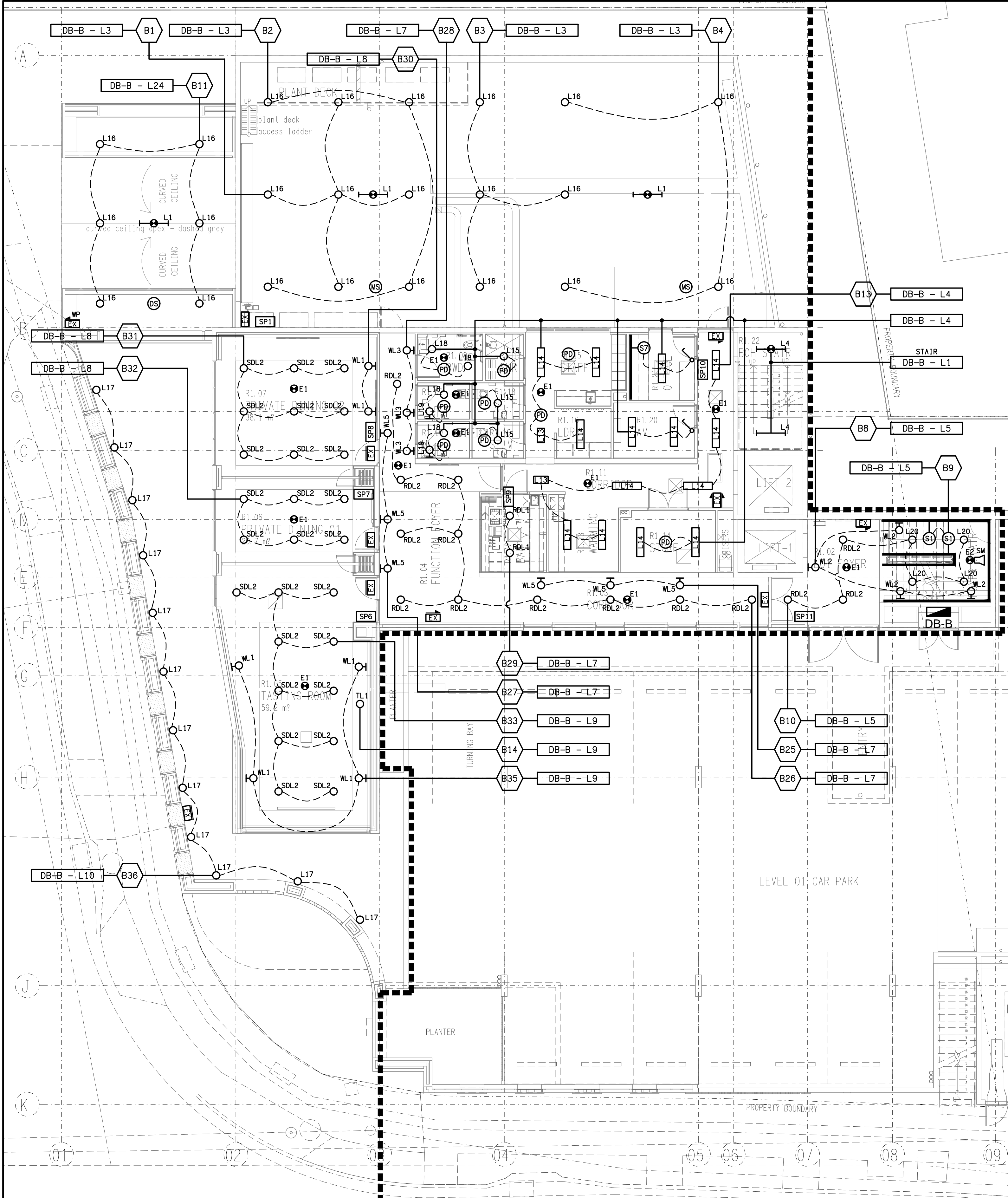
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B	75% DEVELOPMENT	02/10/2024						
REV:	DESCRIPTION:	DATE:						
DRAWING: <b>ELECTRICAL SERVICES</b> <b>LEVEL 2</b> <b>FLOOR PLAN</b>								
SCALE: 1:100 UNO	AT A1	<table border="1"> <tr> <td>PROJECT NO:</td> <td>DRAWING NO:</td> <td>REVISION:</td> </tr> <tr> <td><b>C3234a</b></td> <td><b>E09</b></td> <td><b>B</b></td> </tr> </table>	PROJECT NO:	DRAWING NO:	REVISION:	<b>C3234a</b>	<b>E09</b>	<b>B</b>
PROJECT NO:	DRAWING NO:	REVISION:						
<b>C3234a</b>	<b>E09</b>	<b>B</b>						

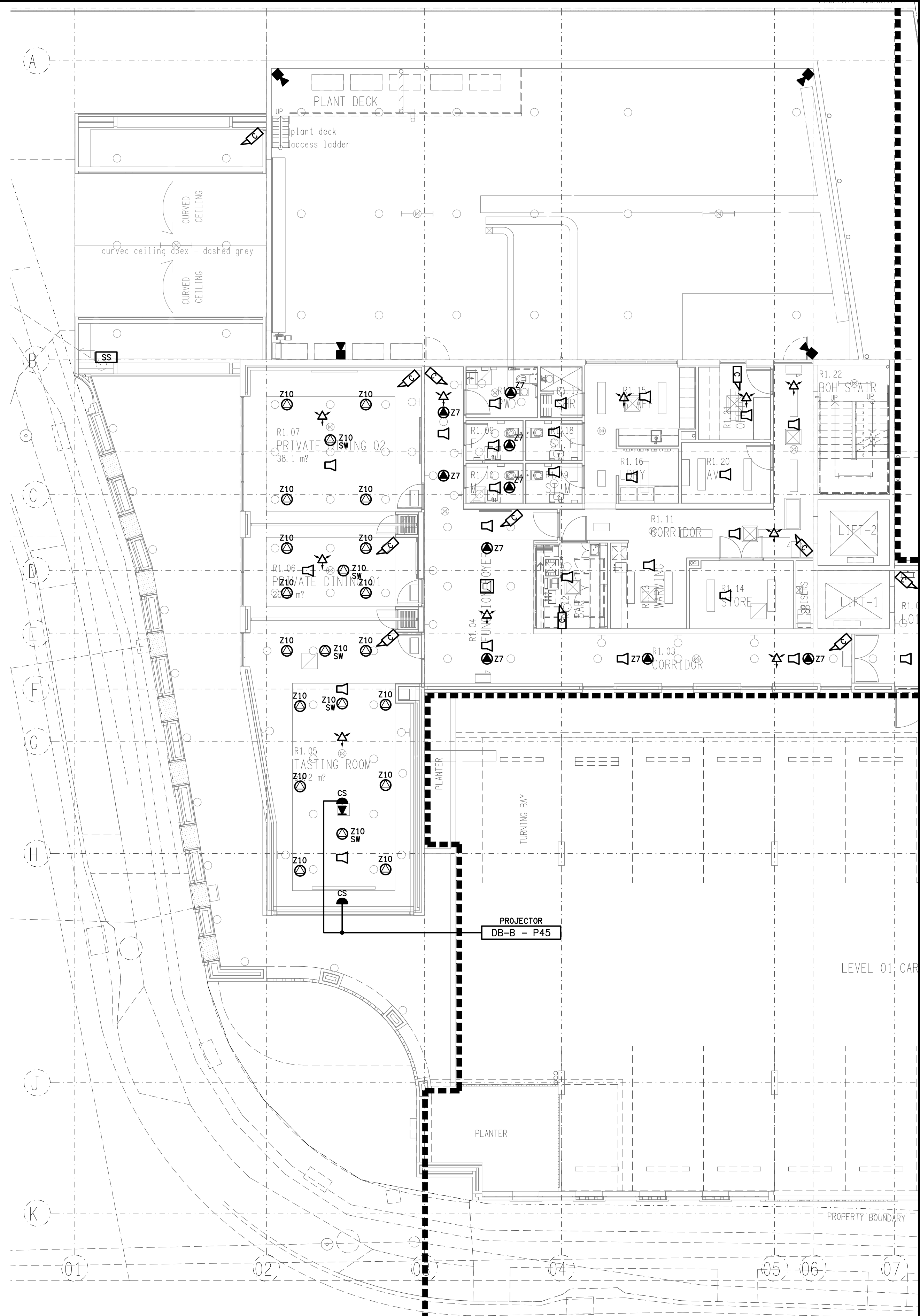


Lot 0  
SP124964  
2 STOREY  
RENDERED  
TOWNHOUSES

REFER TO THE LEVEL 1 REFLECTED CEILING  
PLAN ABOVE FOR THE ELECTRICAL CEILING  
SERVICES WITHIN THIS AREA.



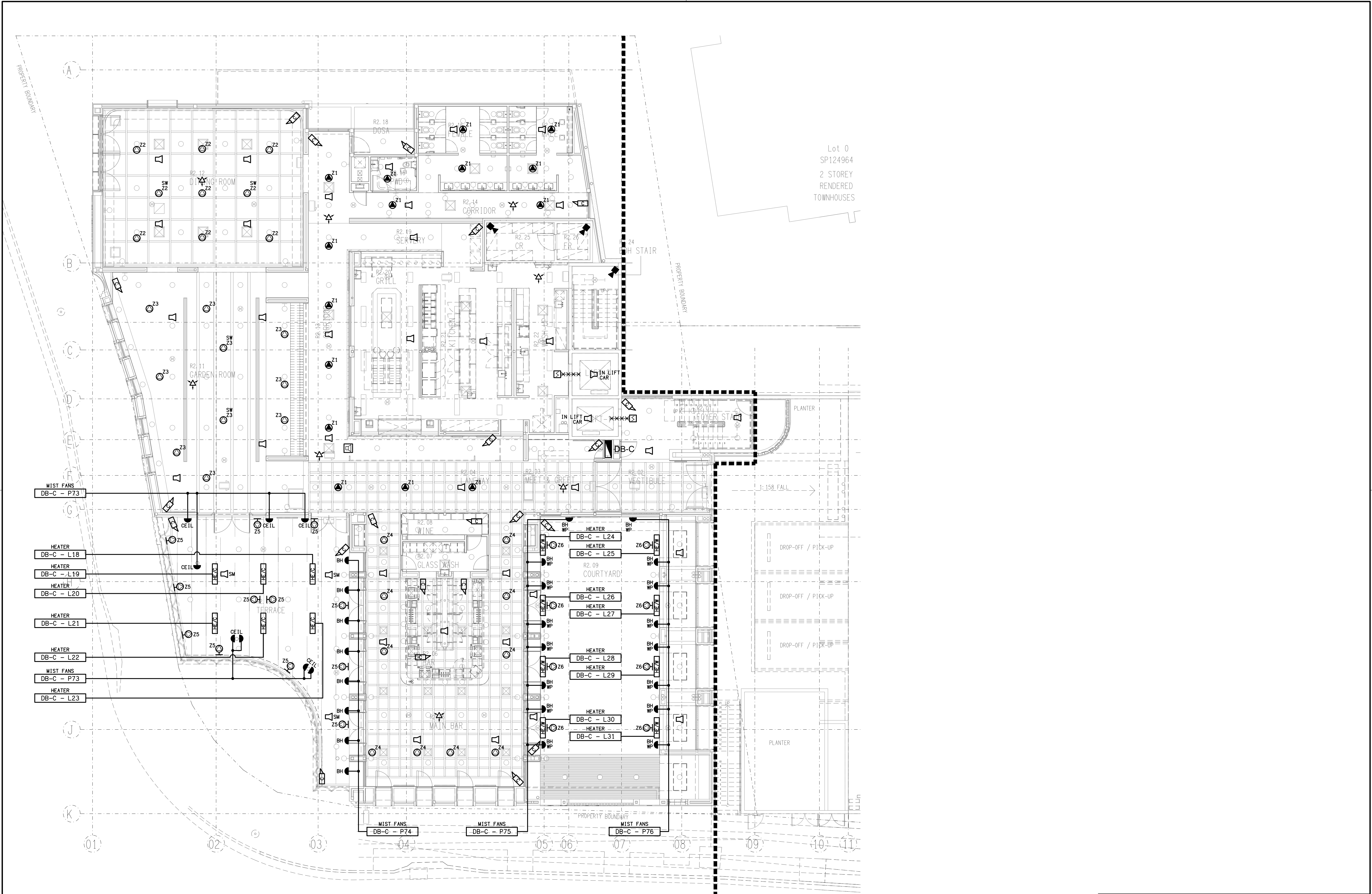
**LIGHTING PLAN**  
LEVEL 1 REFLECTED CEILING PLAN  
SCALE 1:100



**NON LIGHTING PLAN**  
LEVEL 1 REFLECTED CEILING PLAN  
SCALE 1:100

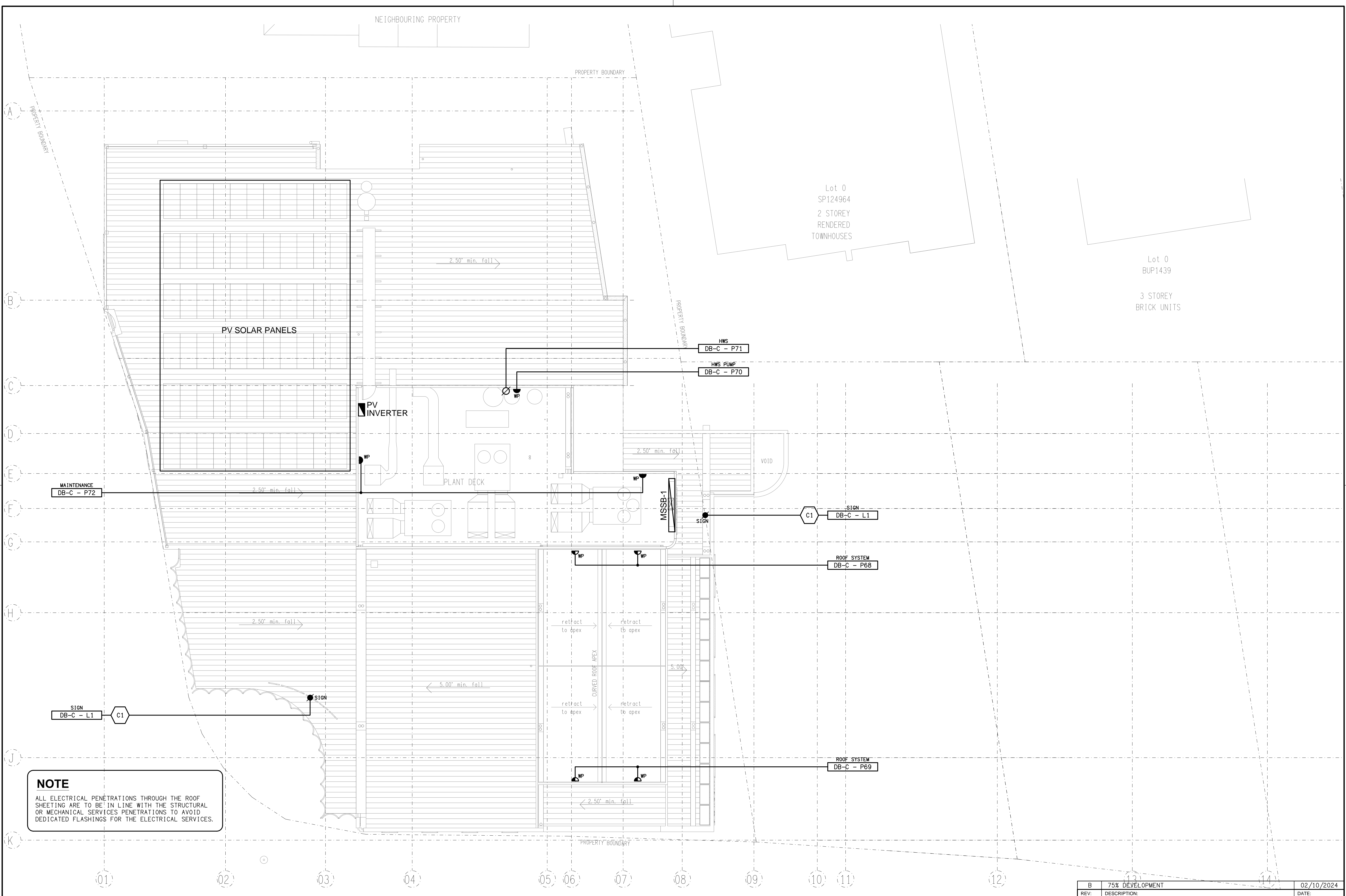




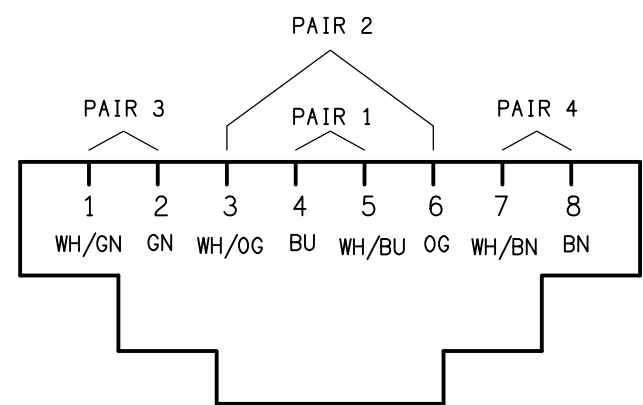


Lot 0  
SP124964  
2 STOREY  
RENDERED  
TOWNHOUSES





**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.



**SCHEMATIC**  
RJ45 PINOUT CONFIGURATION  
NOT TO SCALE

**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.

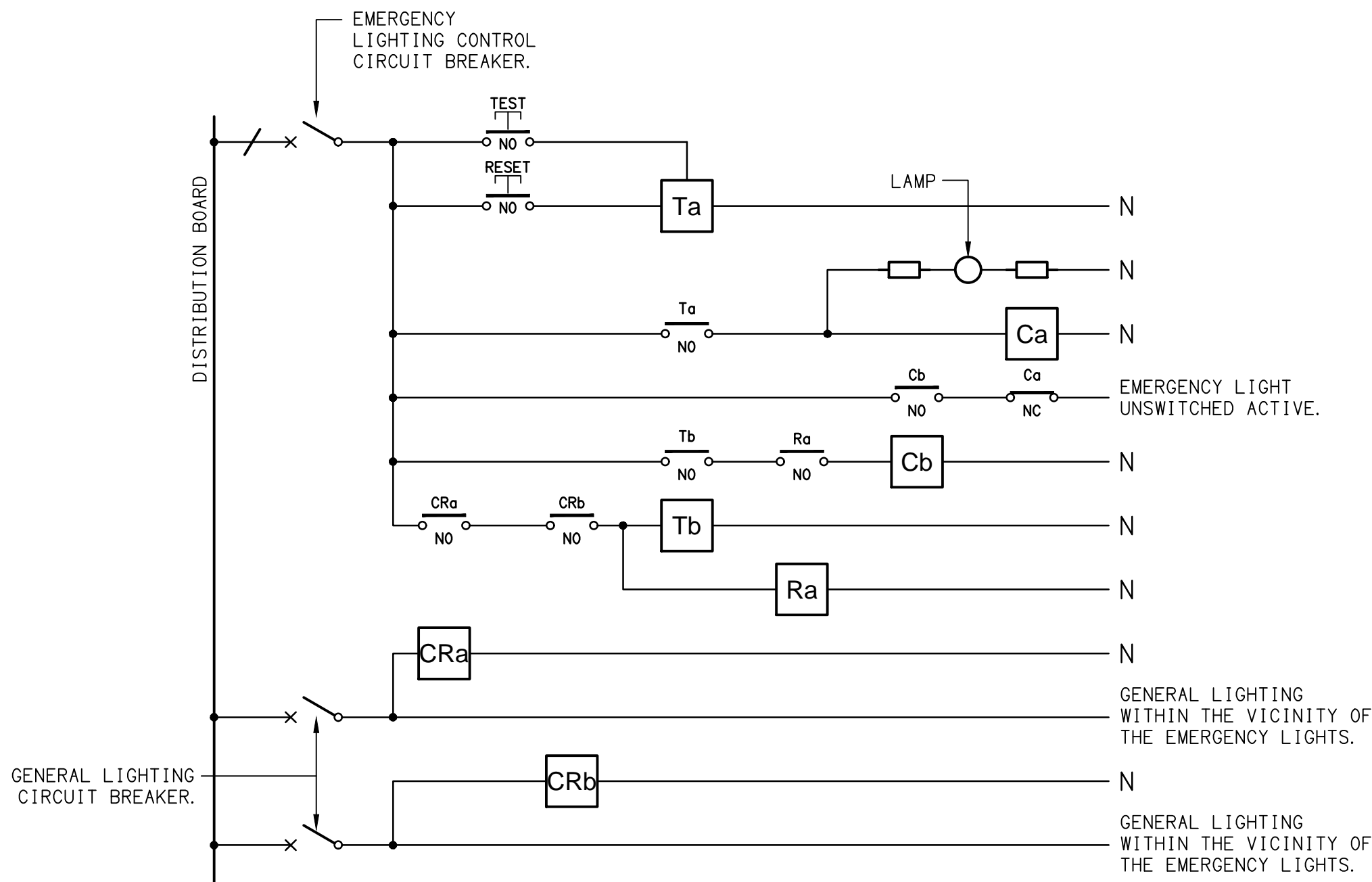
Ta - ADJUSTABLE 0-3 HOUR TIMED RELAY.

Tb - 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.

Cx - CONTACTOR x.

CRx - CONTROL RELAY x.

Rx - RELAY x.

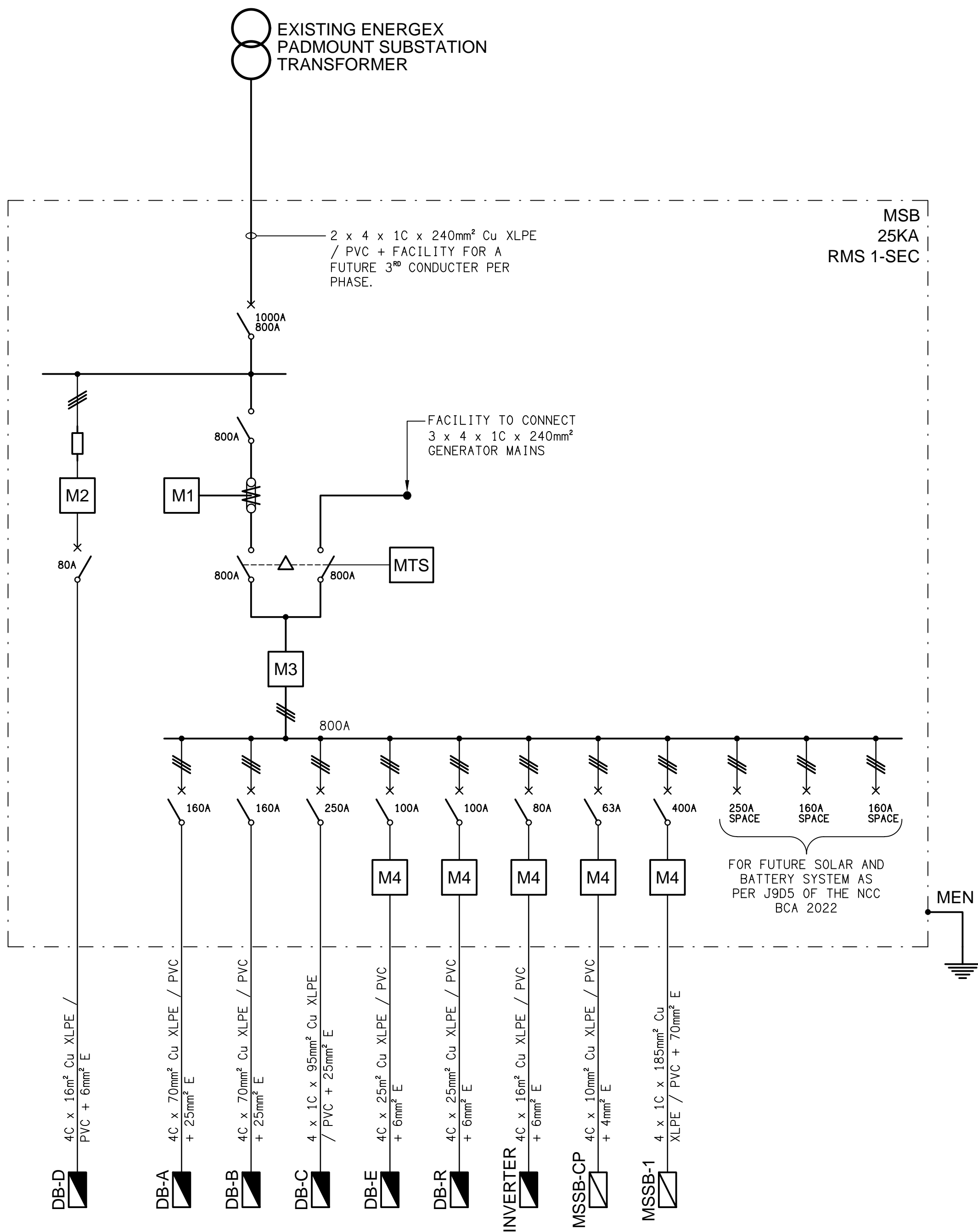


**SCHEMATIC**  
EMERGENCY LIGHTING  
NOT TO SCALE

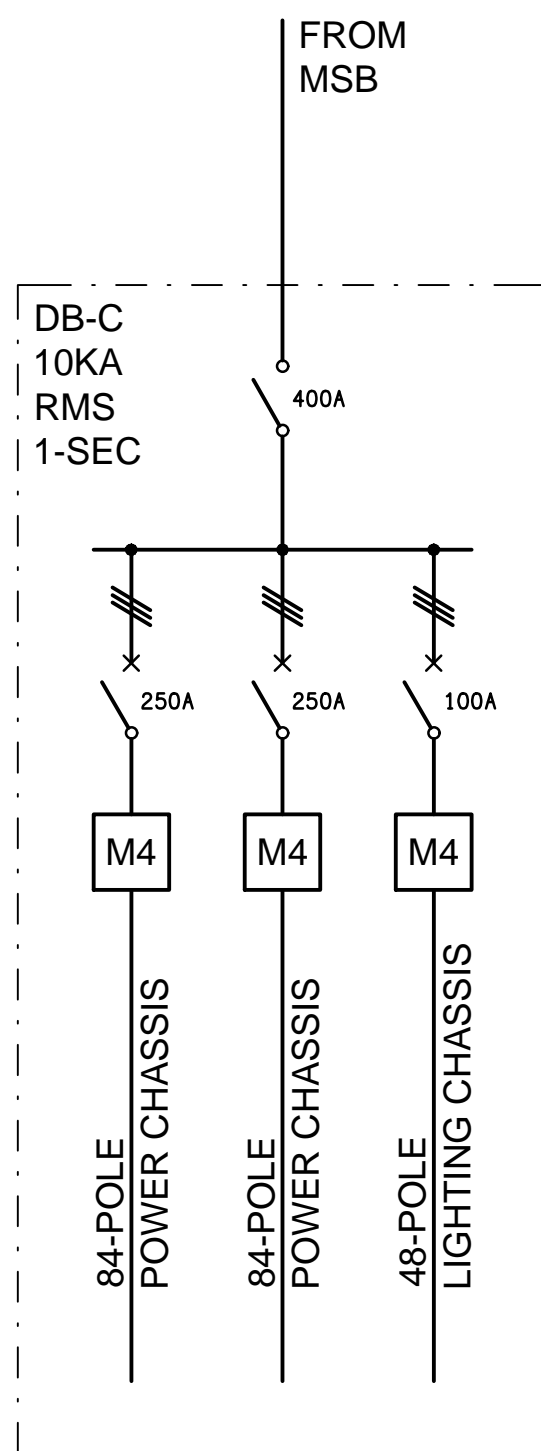
**NOTES**

1. THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.

2. 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**  
POWER CONFIGURATION  
NOT TO SCALE



**SCHEMATIC**  
DB-C CONFIGURATION  
NOT TO SCALE