CHILD CARE CENTRE 823-825 BOTANY ROAD, ROSEBERY, NSW 2018

LIGHTING

Α

L1		EXISTING RELOCATED LOW GLARE TROFFER FITTING CLEANED, TESTED AND RELAMPED.
<u>BP</u>		LED STRIP LIGHT WITH POLY CARBONATE LENS FOR OVER HEAD CUPBOARD. PROVIDE FOR FULL LENGTH OF RUN. VISIONLINE VL26 OR SIMILAR
0 ^{D1}	18W	RECESSED LED DOWN LIGHT PIERLITE DOT, 9100 C LED ROUND. 4000K , OR EQUIVALENT.
0 ^{D2}	18W	RECESSED LED DOWN LIGHT PIERLITE, 4000K. DSI DIMMING, OR EQUIVALENT.
O ^{D3}		RECESSED LED DOWN LIGHT PIERLITE ECO LED, 4000K, IP44.
		LED WALL MOUNTED ADJUSTABLE FLOOD LIGHTS.
P1		CUSTOM PENDANT FITTING, SUPPLIED BY CLIENT.
P2	31W	LED CIRCULAR LUMINAIRE 440mm IN DIAMETER WITH OPAL DIFFUSER AND DIMMABLE GEAR, SUSPENDED 150mm FROM CEILING. TO BE SUPPLIED BY CLIENT.
P3	58W	LED CIRCULAR LUMINAIRE 640mm IN DIAMETER WITH OPAL DIFFUSER AND DIMMABLE CONTROL GEAR, SUSPENDED 100mm FROM CEILING. TO BE SUPPLIED BY CLIENT.
P4	129W	LED CIRCULAR LUMINAIRE 940mm IN DIAMETER WITH OPAL DIFFUSER AND DIMMABLE CONTROL GEAR. SUSPENDED 50mm FROM CEILING. TO BE SUPPLIED BY CLIENT.
P5	60W	OPAL GLASS, LARGE 50CM x25CM WIDE, PEAR PENDANT 22 LIGHTING, FLUORESCENT BULB.
FL FL		LED WALL MOUNTED ADJUSTABLE FLOOD LIGHT PIERLITE, GMR370mH
un s		4 BLADE FAN. WHITE POLYMER BLADES, HUNTER PACIFIC REVOLUTION SHALL BE CONTROLLED BY SUITABLE COMMON WALL CONTROLLER

SWITCHING & CONTROLS

*	SWITCH & SWITCH WIRE CH = CHANNEL No. D = DIMMER CONTROL (DSI DIMMABLE) INT = INTERMEDIATE SWITCH K = KEY OPERATED SWITCH L = LARGE TOGGLE TS = TIME SWITCHED WP = WEATHERPROOF (IP56 RATED) 2W = TWO WAY SWITCH O/R=OVERRIDE SWITCH DSI= DENOTES DSI DIMMING	DBE-P*
4	90° MOVEMENT DETECTOR	
•	360° CEILING MOUNTED MOTION DETECTOR MOVEMENT DETECTORS PASSIVE INFRA RED UNLESS OTHERWISE NOTED. MW = MICROWAVE MOVEMENT SENSOR PIE = MULTI SENSOR (DAYLIGHT & MOVEMENT) C = CORRIDOR TYPE Z = ZONE No. PZ = PERIMETER ZONE No. DP = DENOTES DOUBLE POLE.	SS
$\begin{array}{c} 01\\ 02 \end{array}$	TOP CONTACT No. BOTTOM CONTACT No. $\left. \right\}$ CONTACTOR CONTROLLED CIRCUIT	— E —
TS PE	DENOTES CIRCUIT TO BE CONTROLLED BY TIMER SWITCH AND PE CELL.	

EMERGENCY & EXIT LIGHTING

С

よ た→ そた	LED EXIT SIGN COMPLETE WITH BATTERY PACK IN SUSTAINED MODE WITH DIRECTIONAL ARROW WHERE REQUIRED
C ^{E1}	LED CEILING RECESS MOUNTED NON-MAINTAINED EMERGENCY LUMINAIRE COMPLETE WITH EMERGENCY BATTERY PACK. REFER ELECTRICAL SPECIFICATION FOR MONITORING REQUIREMENTS.
	LED SURFACE MOUNTED NON-MAINTAINED EMERGENCY LUMINAIRE. REFER ELECTRICA SPECIFICATION FOR MONITORING REQUIREMENTS.
	2x35W NON-MAINTAINED SURFACE MOUNTED EMERGENCY FLOOD LIGHT COMPLETE WITH ADJUSTABLE HEADS, EXTRUDED ALUMINUM AND POLYCARBONATE CONSTRUCTION, REFER ELECTRICAL SPECIFICATION FOR MONITORING REQUIREMENTS

D

POWER

	SINGLE 10A SWITCHED GPO
	DOUBLE 10A SWITCHED GPO
Δ	SINGLE SOCKET SWITCHED OUTLET WITH FLAT PINS
9 3N 10A	ELECTRICAL CONNECTION UNIT WITH ISOLATOR
Ø ^{3N} _{20A}	3 PHASE SOCKET OUTLET WITH ISOLATOR
	DISTRIBUTION BOARD
[2]	EXISTING DISTRIBUTION BOARD
\square	MECHANICAL SWITCHBOARD. BY MECHANICAL TRADE
СР	CONTROL PANEL

DBE-P*	CIRCUIT DESIGNATION
	P - DENOTES POWER L - DENOTES LIGHTING
	 E - DENOTES ESSENTIAL (EXCEPT FIRE SAFETY SERVICES, REFER NOTES) N - DENOTES NON-ESSENTIAL
	DISTRIBUTION BOARD NAME
	H - DENOTES HOUSE BOARD T - DENOTES TENANT BOARD
SS	STARTER SOCKET FOR SOFT WIRING SYSTEM
	3 CHANNEL SKIRTING DUCT. COLOUR TO ARCHITECTS SELECTION.
_ · 	CONDUIT
	POWER CABLE BASKET, 'CABLE CAGE SYSTEMS' OR EQUAL
_	

ELECTRICAL DUCT ROUTE

С

LIGHTING NOTES

UNLESS OTHERWISE NOTED - ALL LINEAR FLUORESCENT LAMPS TO BE TRIPHOSPHOR >CR80.

- COLOUR TEMPERATURE TO BE 4000K. - ALL CONTROL GEAR TO BE MIN. 'A2' TYPE SPECIFICATION ELECTRONIC WITH NO MORE THAN 0.5mA EARTH LEAKAGE. - NUMBER OF BALLASTS PER CIRCUIT SHALL NOT TO EXCEED 18 FOR EXISTING T8, 25 FOR NEW T5 INSTALLATION

R

ELECTRICAL SERVICES

COMMUNICATIONS

FIRE LEGEND

G

T	TELEPHONE CONNECTION.	5	ADDRESSABLE SMOKE DETECTOR.	1N 31
∇	RJ 45 DATA OUTLET WITH UTP CABLING TO COMMS RACK 'No.' INDICATES NUMBER OF SOCKETS	53	CONCEALED SMOKE DETECTOR.	2\ Ai A'
PTV	PAY TV OUTLET - F TYPE CONNECTOR	↓	THERMAL DETECTOR.	B\ C C
TV	TV OUTLET WIRED TO MATV SYSTEM.		CONCEALED THERMAL DETECTOR.	C
	TELECOMMUNICATIONS RACK.	Y	MANUAL CALL POINT. BREAK GLASS ALARM	D D FI
MDF	MAIN DISTRIBUTION FRAME.		MAGNETIC DOOR HOLD OPEN DEVICE COMPLETE WITH WALL MOUNTED MAGNET EXTENSION ARM AS REQUIRED.	
	COMMS CABLE TRAY		CEILING RECESS MOUNTED BOWS SPEAKER.	
\bigcirc	RECESSED CEILING SPEAKER AUDIO/PA		SURFACE MOUNTED BOWS SPEAKER.	<u>(</u>
日	SPEAKER		MANUAL CALL POINT	GE
C1	COMMUNICATIONS PIT WITH HEAVY DUTY LID 'No.' INDICATES TYPE	(A	WEATHERPROOF, IP56 EXTERNAL VISUAL ALARM STROBE LIGHT	1. 2. 3.
— c —	COMMUNICATIONS DUCT ROUTE	FIP	ADDRESSABLE FIRE INDICATOR PANEL	4.
			WEATHERPROOF IP56 HORN TYPE BOWS SPEAKER, WALL MOUNTED	5. 6. 7

SECURITY

OS	OVERRIDE SWITCH TO DOOR MAG LOCKS HOUSED IN METAL FERE AT 1800mm AFFL.
RS	MAGNETIC REED SWITCH.
ES	ELECTRIC DOOR STRIKE COMPLETE WITH TONGUE SENSOR AND REED SWITCH (ELECTRONIC STRIKE SUPPLIED WITH DOOR HARDWARE).
ML	MAGNETIC DOOR LOCK WITH REED SWITCH (PROVIDE TO DOOR HARDWARE PROVIDER).
	INTERCOM STATION
IH	INTERCOM HANDSET WITH DOOR RELEASE PUSH BUTTON
CR	PROXIMITY TYPE CARD READER.
КР	ALPHANUMERIC KEYPAD INTERFACED TO ACCESS CONTROL SYSTEM.
CA	ACCESS WC CALL ASSIST PUSH BUTTON
BG	BREAK GLASS EMERGENCY DOOR RELEASE
D	DURESS ALARM PUSH BUTTON
۲	ACCESS CONTROL DOOR RELEASE PUSHBUTTON @ 1200mm AFFL.
\bigotimes	360° INFRARED PIR SENSOR. 'P' DENOTES PASSIVE INFRA RED 'M' DENOTES MICROWAVE
<	180° INFRARED PIR SENSOR. / # NUMBER DENOTES MODE OF OPERATION
\otimes	REX SENSOR.
SEC	SECURITY PANELS (ACCESS CONTROL, INTRUDER DETECTION, INTERCOM)
СС	CCTV LCD COLOUR MONITOR, 22 INCH U.N.O. COMPLETE WITH ADJUSTABLE CEILING MOUNTING BRACKET.
ً⊖	COLOUR CCTV CAMERA IN WEATHERPROOF DOME ENCLOSURE COMPLETE WITH WALL BRACKET INSTALLED AT 4000mm AFFL.
В	COLOUR CCTV FIXED CAMERA COMPLETE IN VANDAL PROOF DOME ENCLOSUREWITH MOUNTING BRACKET MP - DENOTES MEGA PIXEL W- WIDE ANGLE LENS 9:16 - DENOTES CORRIDOR FORMAT
AS	ALARM SCREAMER TO ACTIVATE WHEN DOOR IS OPENED
DI	DURESS ALARM STROBE LIGHT & SIREN (ADJUSTABLE VOLUME). LABELLED "DURESS ALARM"
BIO	BIOMETRIC SECURITY SYSTEM FINGER PRINT DOOR ACCESS
T/A	TIME AND ATTENDANCE SCANNER AS PART OF BIOMETRIC SECURITY SYSTEM BY PEOPLE KEY
- <u></u>	BLUE STROBE LIGHT TO ACTIVATE WHEN DOOR IS OPEN

F

F

ABBREVIATIONS

н

1N	- 1 PHASE + NEUTRAL
3N	- 3 PHASE + NEUTRAL
2W	- 2 WAY
AB	- ABOVE BENCH
AFFL	- ABOVE FINISHED FLOOR LEVEL
BWU	- BOILING WATER UNIT
С	- CLEANER
CAP	- GPO WITH CAPTIVE OUTLET
СМ	- CEILING MOUNTED
CS	- CEILING SPACE
СТ	- COOKING TOP
D	 DOUBLE SIDED FITTING
DW	- DISHWASHER
FR	- FRIDGE

<u>C</u>	SENERAL NOTES
GEN	NERAL
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	ALL WORK TO BE IN ACCORDANCE WITH SAA W DRAWINGS MUST BE READ IN CONJUNCTION WI MARK ALL EQUIPMENT INCLUDING SWITCHES, F AND DESTINATION AREAS. LOCATIONS OF ELECTRICAL EQUIPMENT SHOW! LOCATIONS WITH ALL OTHER SERVICES DETAIL ARCHITECTURAL, HYDRAULIC AND MECHANICAI ALL OUTLETS IN WET AREAS, CO-ORDINATE E> ALL OUTLETS IN WET AREAS, CO-ORDINATE E> ALL OUTLETS IN JOINERY UNITS, CO-ORDINATE PENETRATIONS THROUGH FIRE RATED WALLS A THE LEVEL OF PROTECTION OF THE SURROUND PLACE ALL CONTROLS WITHIN DISTRIBUTION BC ENSURE THE POSITION OF THE LIGHT SWITCHE ROOM, UNLESS OTHERWISE INSTRUCTED, AT 1' ALL GPO CIRCUITS PROTECTED BY 20A 30MA RC THE DRAWINGS SHALL BE READ IN CONJUNCTION THE CONTRACTOR MUST READ, ADHERE TO & A THE CO COMMUNICATIONS SPECIFICATION PR NOT DOING SO WILL NOT BE ACCEPTED ALL SWITCHBOARDS & COMMUNICATION SYSTE THE ELECTRICAL CONTRACTOR SHALL PROVIDI TO COMPLY WITH BCA SECTION J REQUIREMEN
LIGI	HTING
8. 9. 10. 11.	WHERE LIGHT SWITCH WIRE LINES ARE NOT SH PROVIDE MINIMUM OF ONE LIGHT SWITCH TO O MOUNT EXIT LIGHTS ON CEILING ONLY. CHAIN S PROVIDE 30mA RCD PROTECTION TO ALL LIGHT FLUORESCENT LIGHTING SWITCHED BY MOTION COLOUR OF ALL LIGHT FITTINGS, TRIMS, LENSE ALL LIGHT FITTINGS SUPPLIED WITH, LAMPS, EL
POV	NER
	UNLESS ARCHITECTURAL JOINERY DRAWINGS S OUTLET ABOVE BENCH TOP. REFER TO ARCHITI MOUNT OUTLETS LOCATED NEAR SINKS AND TL

EQUIPMENT AS REQUIRED BY AS 3000.

SPECIFICATION AND AS 3000:2007. 5. AVOID BACK TO BACK OUTLETS IN ALL ACOUSTIC & FIRE RATED WALLS. CABLE WAYS

DUCT OR METAL CONDUIT.

EARTHING

G

SYSTEMS AND OTHER METALLIC SYSTEMS.

DRAWING LIST

E000 - COVER SHEET, LEGEND OF SYMBOLS, GENERAL NOTES AND DRAWING LIST.

- E101 FIRST FLOOR LIGHTING AND FIRE DETECTION LAYOUT
- E200 GROUND FLOOR POWER, COMMUNICATIONS AND SECURITY LAYOUT

E201 - FIRST FLOOR POWER, COMMUNICATIONS AND SECURITY LAYOUT

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REV	ISIONS	/ AMENDMENTS		
Rev	Date	Description	Verified	1
А	12.11.15	TENDER ISSUE	J.S.	
В	18.12.15	REVISED TENDER ISSUE	J.S.	
С	14.01.16	REVISED TENDER ISSUE	J.S.	

- MOUNTED ON JOINERY MW - MICROWAVE

- OR LIGHTING OVERRIDE SWITCH - ELECTRIC OVEN
- SURFACE MOUNTED SK - MOUNTED ON SKIRTING DUCT
- 0-2HR ADJUSTABLE ELECTRONIC TIMER SWITCH
- UB UNDER BENCH - VANDAL RESISTANT HOUSING
- MOUNTED ON WALL DUCT WP - IP56 RATED
- VIRING RULES, AS 3000.
- WITH THE ELECTRICAL SPECIFICATION. , POWER OUTLETS, ETC., WITH DISTRIBUTION BOARD NUMBER/CIRCUIT NUMBER WN ARE INDICATIVE ONLY. CO-ORDINATE FINAL ELECTRICAL EQUIPMENT
- ILS AND TRADE DISCIPLINES ON SITE AND WITH REFERENCE TO AL DRAWINGS. EXACT LOCATIONS WITH ARCHITECTURAL WET AREA DETAILS.
- E EXACT LOCATIONS WITH ARCHITECTURAL JOINERY AREA DETAILS S AND FLOORS ARE TO BE SEALED WITH FIRE STOPPING MATERIAL EQUAL TO NDING BARRIER. BOARD, UNO.
- ES ETC ARE TO BE POSITIONED TOGETHER BY THE ENTRY DOOR OF EACH 1100mm AFFL.
- RCD's SINGLE POLE TYPE ION WITH THE ELECTRICAL SERVICES SPECIFICATION.
- & ALLOW IN THE TENDER PRICE FOR ALL WORKS AND EQUIPMENT DETAILED IN PRIOR TO TENDERING & CARRYING OUT ANY WORK. VARIATIONS AS A RESULT OF
- TEMS SHALL BE SIZED TO FIT SPACES PROVIDED. DE 24HOURS / 365 DAYS PROGRAMMABLE TIMER TO ALL BOILING WATER UNITS ENTS.
- SHOWN, SWITCH FITTINGS BY SWITCH(ES) ADJACENT TO ROOM ENTRANCE DOOR. OPERATE ALL LIGHTS WITHIN EACH ROOM I SUSPEND AS REQUIRED TO ABOVE DOOR HEIGHT TO AS2293 TING & POWER CIRCUITS AS PER AS3000.

S SHOW OTHERWISE , MOUNT ALL OUTLETS MARKED "AB" AT 150 TO BOTTOM OF ITECTURAL JOINERY DWGS FOR EXACT LOCATIONS. 2. MOUNT OUTLETS LOCATED NEAR SINKS AND TUBS, OUTSIDE THE "DAMP AREAS RESTRICTED ZONE" AS REQUIRED BY AS 3000. 3. INSTALL AN ISOLATOR ADJACENT TO ALL EQUIPMENT THAT IS NOT IN THE IMMEDIATE VICINITY OF ITS CONTROL PANEL OF

4. PROVIDE COMBINED RCD/CIRCUIT BREAKER FOR ALL POWER AND LIGHTING CIRCUITS THROUGHOUT AS DETAILED IN

1. SEPARATE COMMUNICATIONS CABLING FROM POWER CABLING BY MINIMUM OF 300mm, EXCEPT WHERE ENCLOSED IN METAL

1. INSTALL EQUIPOTENTIAL BONDING TO METALLIC PIPING, CABLE TRAYS, METAL DUCTS, COMMUNICATIONS EARTHING

- E100 GROUND FLOOR LIGHTING AND FIRE DETECTION LAYOUT

DESIGN & CONSTRUCT DOCUMENT

ARCHITECT 189 Kent Street

Sydney, NSW 2000 www.sbarchitects.com.au

CONSULTANT



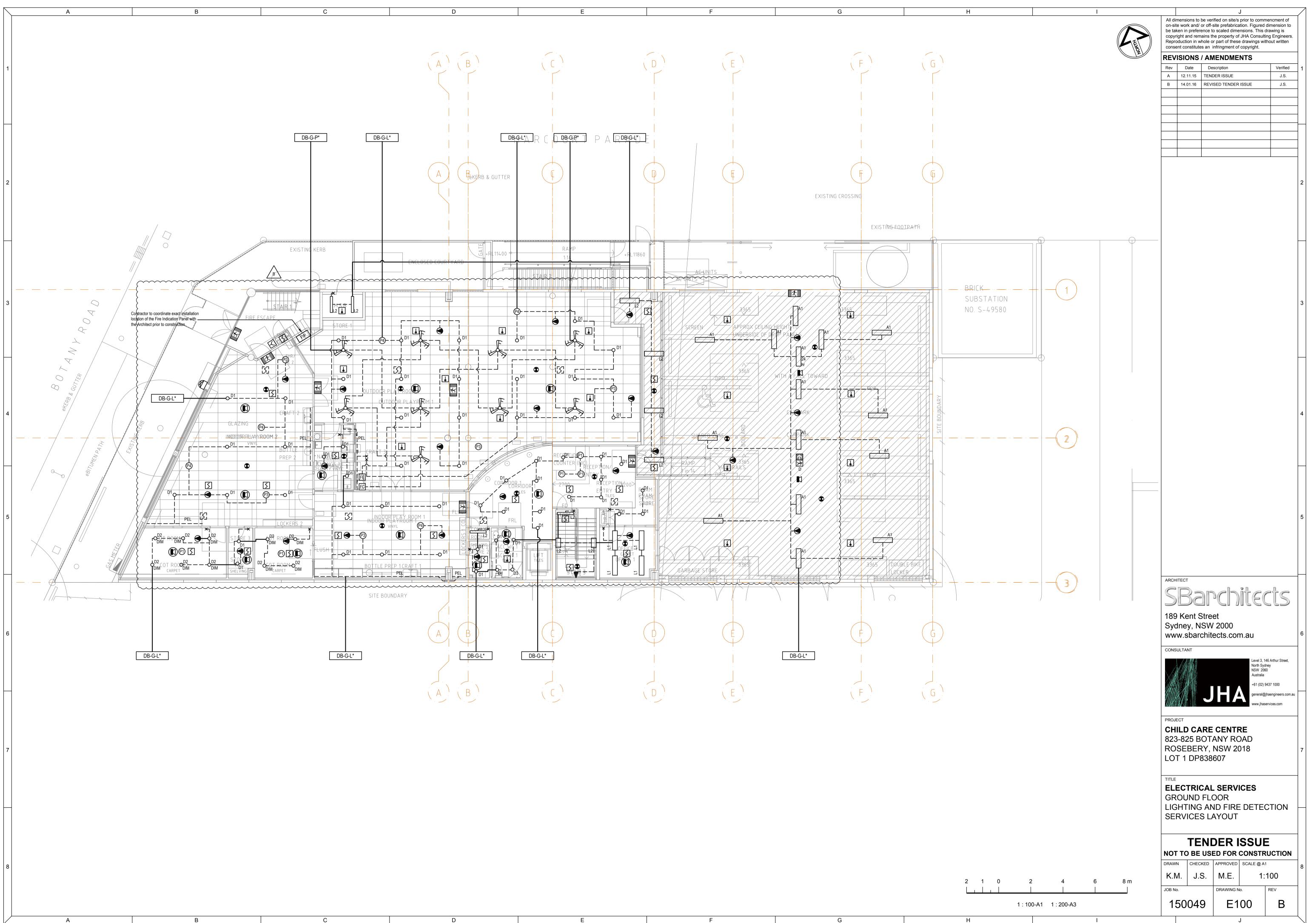
PROJECT

CHILD CARE CENTRE 823-825 BOTANY ROAD ROSEBERY, NSW 2018 LOT 1 DP838607

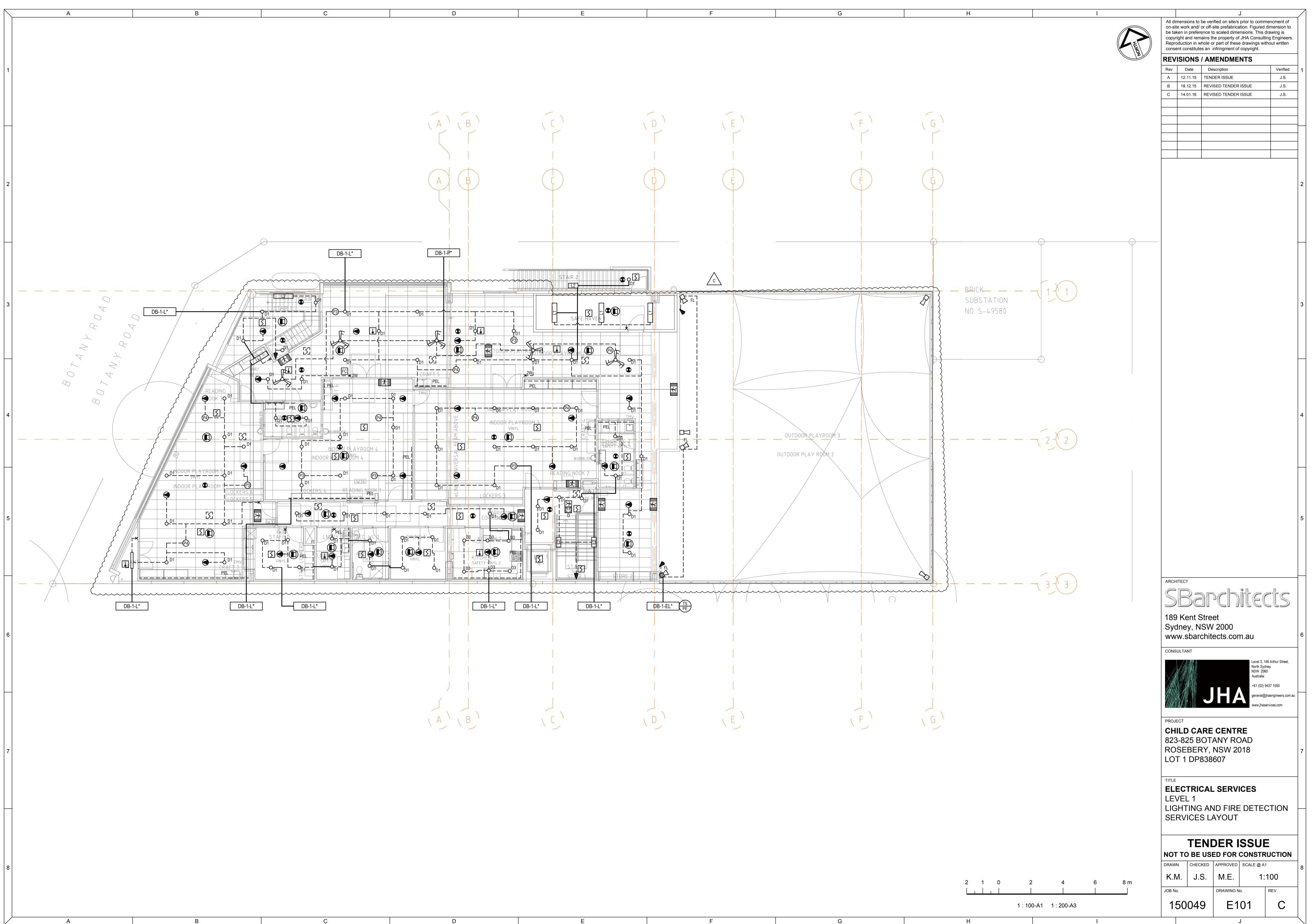
TITLE ELECTRICAL SERVICES COVER SHEET, LEGEND OF SYMBOLS, GENERAL NOTES & DRAWING LIST

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NOT TO) BE USI	ED FOR	CONSTR	RUCTION	
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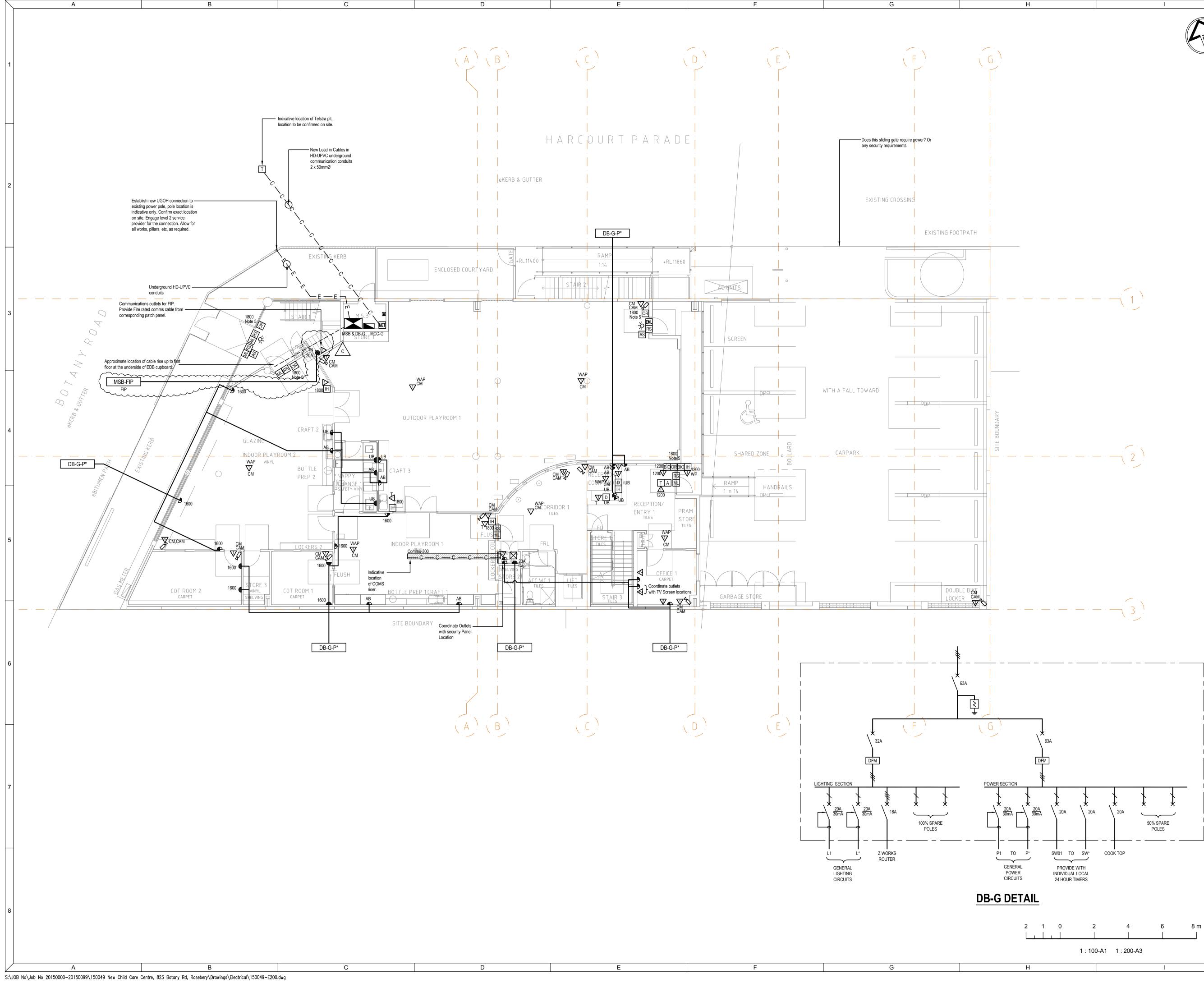
- ON DETECTORS TO HAVE WARM START BALLASTS SES TO BE APPROVED BY THE ARCHITECT. ELECTRONIC BALLASTS, ELECTRONIC TRANSFORMERS.



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