# MARIBYRNONG RIVER CHILDREN'S CENTRE REDEVELOPMENT

# 6 WESTS RD, MARIBYRNONG MARIBYRNONG CITY COUNCIL

## ELECTRICAL SERVICES

SPECIFICATION & SITE PLAN LIGHTING & POWER LAYOUT PLAN

WEATHERPROOF G.P.O. ON POST, CO-ORDINATE ONSITE WITH HYDRAULIC CONTRACTOR FOR

EXACT LOCATION. POST BY BUILDER.

CABLE IN CONDUIT BELOW GROUND.

EXISTING METER PANEL TO BE REMOVED.

EXISTING MAIN SWITCHBOARD. (M.S.B.) -

DISTRIBUTION BOARD A.

SUB-MAINS IN ROOF

REMOVE EXISTING INCOMING

<u>'SOUTH:</u>

SUB-MAINS RISE IN WALL

SWITCHBOARD, C.T. CHAMBER & METER

PANEL IN WEATHERPROOF, VANDAL

RESISTANCE LOCKABLE ENCLOSURE.

FROM BELOW GROUND TO

NEW POINT OF SUPPLY MAIN

-sub-mains in conduit.

ROOF SPACE.

CABLE BELOW GROUND.

SUB-MAINS RISE IN WALL

FROM BELOW GROUND TO

EXISTING SERVICE PIT.

NORTH:

-CABLES IN CONDUIT

PUSH BUTTON SWITCH

INCOMING POWER FROM EXISTING POLE.

WITH 10min DELAY.

BELOW GROUND.

- THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION. THE THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MANUFACTURED ITEMS, MATERIALS AND LABOUR
- DESCRIBED HEREIN AND DETERMINED ON SITE FOR THE PROPER EXECUTION OF THE WORKS. WORKMANSHIP SHALL BE NEAT AND TIDY TO THE APPROVAL OF THE ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE THE WORKS WITH ALL OTHER TRADES.
- ARCHITECTURAL DETAILS. FINAL LOCATIONS OF ALL EQUIPMENT SHALL BE DETERMINED IN CO-ORDINATION WITH OTHER SERVICES, STRUCTURAL AND ARCHITECTURAL DRAWINGS. ALL LOCATIONS ARE TO BE CONFIRMED PRIOR TO INSTALLATION. DO NOT SCALE DRAWINGS.
- THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLY AUTHORITY, B.C.A., A.S.3000/2007 AND ANY OTHER AUTHORITY HAVING JURISDICTION OVER THE INSTALLATION.
- THE CONTRACT DOCUMENTS ARE FORMED BY THE FOLLOWING DRAWINGS: DRAWINGS E1, E2 & E3

REFERENCE TO WORKS 'BY OTHERS' OR 'OTHER TRADES' IN THIS DOCUMENTATION IS INTENDED

EQUIPMENT AND THE LIKE, PREPARE SHOP DRAWINGS AND SUBMIT TO THE ARCHITECT FOR REVIEW.

- ONLY TO ASSIST IN THE DELINEATION OF THE SERVICES SUB-CONTRACTOR'S SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL, PRIOR TO COMMENCING WORK ON THE FABRICATION OF
- THE ELECTRICAL CONTRACTOR SHALL BE DEEMED TO HAVE THOROUGHLY INSPECTED THE SITE PRIOR TO TENDERING AND TO HAVE TAKEN INTO ACCOUNT ANY CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY INFORMATION TO THE HEAD CONTRACTOR DURING THE TENDER PERIOD TO ENABLE THE HEAD CONTRACTOR TO ALLOW FOR ALL
- ADVISE THE ARCHITECT AS SOON AS ANY WORKS CONFLICT, SHOW INCONSISTENCY OR IF OTHER PROBLEMS ARISE. DO NOT PROCEED WITH THE AFFECTED PORTION OF THE WORKS UNTIL A RESOLUTION WITH THE ARCHITECT IS REACHED.
- THE SITE SHALL BE KEPT CLEAN AND TIDY THROUGHOUT THE COURSE OF THE WORK AND ALL RUBBISH SHALL BE REMOVED REGULARLY. PRIOR TO PRACTICAL COMPLETION AND AT THE CONCLUSION OF THE WORK, ALL DEBRIS AND RUBBISH SHALL BE CLEARED AWAY AND REMOVED FROM SITE AND THE COMPLETED INSTALLATION SHALL BE LEFT THOROUGHLY CLEAN.
- EXACT SIZE AND LOCATION OF STRUCTURAL PENETRATIONS TO BE DETERMINED ON SITE IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. WHERE APPLICABLE ALL PENETRATIONS SHALL BE MADE FIRE RATED WITH APPROVED MATERIALS TO AUTHORITY'S REQUIREMENTS AND SHALL BE WATERPROOF.
- PRIOR TO THE COMMENCEMENT OF ANY CIVIL WORKS THE CONTRACTOR SHALL SURVEY THE SITE AND IDENTIFY THE ROUTES OF ALL EXISTING SERVICES IN THE AREA. THE ELECTRICAL SERVICES CONTRACTOR SHALL CO-ORDINATE WITH ALL OTHER CONTRACTORS TO ENSURE THAT ANY CIVIL OR DEMOLITION WORKS DO NOT DAMAGE EXISTING SERVICES WHICH ARE TO REMAIN IN SERVICE OR RE-USED FOR THE PROJECT. UNLESS OTHERWISE NOTED ALL EXISTING SERVICES ARE TO REMAIN.
- ALL SWITCHPLATES, SWITCHES, SOCKET OUTLETS, ETC. UNLESS OTHERWISE INDICATED SHALL BE CLIPSAL - 2000 SERIES - COLOUR AS SELECTED BY THE ARCHITECT.
- PROVIDE 12 MONTH WARRANTY & MAINTENANCE PERIOD FOR ALL WORKS COVERED BY THIS
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THREE COPIES OF AS-INSTALLED DRAWINGS, ELECTRONIC VERSION IN PDF AND CAD FILE AND THREE COPIES OF OPERATION AND MAINTENANCE MANUALS PRIOR TO COMPLETION OF THE WORKS.
- THE ELECTRICAL CONTRACTOR SHALL CARRY OUT ALL TESTING AND COMMISSIONING NECESSARY TO ENSURE THAT THE SYSTEMS ARE OPERATING SAFELY, EFFICIENTLY AND IN ACCORDANCE WITH THE
- THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ONE INFORMATIVE SITE VISIT FOR INSTRUCTING THE USERS ON THE OPERATION OF THE ELECTRICAL SERVICES.
- THE ELECTRICAL CONTRACTOR SHALL ISSUE A CERTIFICATE OF COMPLIANCE BEFORE THE DATE OF PRACTICAL COMPLETION. THE CERTIFICATE SHALL STATE THAT THE COMPLETE INSTALLATION COMPLIES WITH ALL THE REQUIREMENTS OF THIS SPECIFICATION AS WELL AS THE RELEVANT AUSTRALIAN STANDARDS AND REGULATIONS WHICH APPLY TO THE INSTALLATION.
- ALL SERVICES PENETRATING FIRE RATED WALLS, FLOORS, ETC. SHALL BE PACKED WITH FIRE RESISTANT MATERIAL TO MAINTAIN FIRE RATING.

### PROJECT SPECIFICATION

**EQUIPMENT SUPPLIED BY OTHER SUBCONTRACTORS** THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY OTHERS:

- HOT WATER UNITS
- EXHAUST FANS AIR CONDITIONING UNITS

THE ELECTRICAL CONTRACTOR SHALL ONLY WIRE TO AND CONNECT IN CIRCUIT, UNLESS NOTED

THEMSELVES WITH THE EXISTING CONDITIONS.

THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A TENDER TO FAMILIARISE

### NOTIFICATION, PERMITS AND REGULATIONS

ALL NECESSARY RATES AND FEES DUE TO SUCH AUTHORITIES AND SHALL BE RESPONSIBLE FOR ANY LIABILITY DUE TO SUCH NOTIFICATION NOT BEING CARRIED OUT.

ALL WORK IS TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS, HEALTH COMMISSION REGULATIONS, LOCAL COUNCIL REGULATIONS, AND AUSTRALIAN STANDARD CODES GOVERNING THIS TYPE OF INSTALLATION.

THE INSTALLATION SHALL BE STRICTLY IN ACCORDANCE WITH THE SAA WIRING RULES, AS/NZ 3000-2007. THE VICTORIAN SERVICE AND INSTALLATION RULES AND ANY ADDITIONAL REQUIREMENTS OF THE SUPPLY AUTHORITY, FOLLOWING COMPLETION OF THE INSTALLATION THE CONTRACTOR SHALL ARRANGE TO HAVE THE WORK INSPECTED BY THE RELEVANT AUTHORITIES. PROVIDE COPIES OF TEST REPORTS AND CERTIFICATES WHERE REQUIRED BY REGULATIONS OR AUTHORITIES.

### <u>SWITCHBOARDS</u>

PROVIDE A SWITCHBOARD OF THE DEAD FRONT, FRONT ACCESS TYPE, MANUFACTURED FROM STEEL WITH A LOCKABLE LIFT OFF REMOVABLE DOOR SUITABLE TO THE SUPPLY CAPACITY. FOR THE MANUFACTURE OF THE SWITCHBOARD USE COLD ROLLED COMMERCIAL BRIGHT MILD STEEL, SUPPLIED FLAT. FREE FROM DENTS, RUST, SCALE AND OTHER BLEMISHES. DOORS SHALL BE FITTED WITH A CLOO1 LOCK. FOUR (4) KEYS FOR THE LOCK ARE TO BE HANDED TO THE SUPERINTENDENT AT THE COMPLETION OF THE PROJECT.

WORKMANSHIP IS TO BE OF THE HIGHEST STANDARD IN ALL CASES, AND THE FINISHED ENCLOSURE MUST PRESENT A NEAT AND ATTRACTIVE APPEARANCE.

SWITCHBOARD SHALL CONTAIN ALL RCD's AND OTHER CONTROL GEAR REQUIRED FOR THE INSTALLATION TOGETHER WITH TWO SPARE 20A RCD's AND 20% SPARE CAPACITY. PROVIDE A CIRCUIT INDEX ENCLOSED IN MOULDED PLASTIC FITTED TO THE INSIDE OF THE DOORS. PROVIDE AND INSTALL ALL EQUIPMENT AND ALL CONTROL AND PROTECTIVE EQUIPMENT THAT IS REQUIRED FOR THE SAFE AND SATISFACTORY OPERATION OF THIS INSTALLATION. PROVIDE SCREWED SWITCHBOARD LABEL ON THE OUTSIDE OF THE SWITCHBOARD.

### **CIRCUIT BREAKERS**

ALL MOULDED CIRCUIT BREAKERS AND RESIDUAL CURRENT SERVICES SHALL BE TYPE 'C' & SHALL BE SUPPLIED BY THE ONE MANUFACTURER AND MOUNTED ON AN APPROVED MOUNTING CHASSIS BEHIND A REMOVABLE ESCUTCHEON PLATE.

CIRCUIT BREAKERS ARE TO BE OF THE THERMAL/MAGNETIC TYPE AND OF SIZES AS REQUIRED. THE BREAKERS ARE TO HAVE QUICK-MADE, QUICK-BREAK TOGGLE ACTION, BE TRIP-FREE AND HAVE CONSTANT CHARACTERISTICS IRRESPECTIVE OF THE PHYSICAL PLANE IN WHICH THEY ARE MOUNTED. SELECT CIRCUIT BREAKERS TO ENSURE PROTECTION DISCRIMINATION IS ACHIEVED AND CO-ORDINATED THROUGHOUT THE DISTRIBUTION NETWORK.

IT IS REQUIRED THAT ONLY THE DOWNSTREAM PROTECTION DEVICE IS TO TRIP FOR ANY AND ALL POSSIBLE FAULTS AT ITS POINT IN THE DISTRIBUTION NETWORK. UNLESS NOTED OTHERWISE ALL CIRCUIT BREAKERS PROVIDED ARE TO HAVE AN INTERRUPTING

CAPACITY OF NOT LESS THAN 6KA AT NORMAL VOLTAGE. PROVIDE OVERLOAD AND SHORT CIRCUIT PROTECTION UNLESS OTHERWISE SHOWN. ALL CIRCUIT BREAKERS ARE TO HAVE PHYSICAL INDICATION SHOWING WHETHER THEY WERE TRIPPED

MANUALLY OR AUTOMATICALLY. CIRCUIT BREAKER MOUNTING ARRANGEMENTS ARE TO BE SUCH THAT A FUTURE BREAKER MAY BE READILY MOUNTED ON THE SPARE MOUNTINGS PROVIDED AND CIRCUIT BREAKERS MAY BE READILY REPLACED WITHOUT DISTURBING ADJACENT CIRCUIT BREAKERS.

RCD'S SHALL BE 30mA AND SAME MANUFACTURE AS THE CIRCUIT BREAKERS.

### CABLING AND SUB-CIRCUIT WIRING

POWER CABLE RATINGS HAVE BEEN DETERMINED ON THE BASIS OF AS3008.1 AND GENERALLY ARE ASSUMED TO BE INSTALLED WHEREVER AIR CIRCULATION IS RESTRICTED, I.E. FIXED DIRECTLY TO A WALL, FLOOR, CEILING OR SIMILAR SURFACE.

SUPPLY AND INSTALL, MAINS AND FINAL SUB-CIRCUIT CABLES AS SHOWN ON THE DRAWINGS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL BE SATISFIED THAT THESE CABLES ARE ADEQUATE FOR THE PRESENT LOAD, AS SHOWN ON THE DRAWINGS, PLUS A FUTURE LOADING OF A FURTHER

SUPPLY AND INSTALL CABLES FOR FINAL SUB-CIRCUITS WHERE SHOWN ON THE DRAWINGS. THE FOLLOWING SIZES ARE THE MINIMUM SIZE CONDUCTORS PERMITTED, WITH DUE ALLOWANCE TO DE-RATINGS AS NOMINATED IN AS3008.1 AND BE UPGRADED IN ACCORDANCE WITH AS3008.1

LIGHTING & POWER CIRCUITS, UNLESS OTHERWISE SHOWN, SHALL BE 2.5mm<sup>2</sup> (7/0.67)

ALL CONDUCTORS ARE TO BE COPPER AND BE MULTI-STRANDED, UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINIUM CONDUCTORS ARE NOT ACCEPTABLE AND WILL NOT BE PERMITTED ON SITE.

### IN ALL CASES, INSULATE ALL CABLES TO 660 VOLTS.

PROVIDE ALL NECESSARY CABLE BOXES, GLAND PLATES, CABLE GLANDS, CABLE TRAYS, CABLE LUGS, CONDUIT ENTRIES AND ACCESSORIES NECESSARY FOR THE TERMINATION OF THE CABLES. IDENTIFY ALL INCOMING AND OUTGOING CABLES USING NUMBERED FERRULES.

### **INSTALLATION, FITTINGS AND ACCESSORIES**

SUPPLY AND INSTALL ALL FITTINGS IN AN APPROVED MANNER. OBTAIN THE POSITIONS, SWITCHING AND CIRCUIT ARRANGEMENTS FOR ALL FITTINGS, OUTLETS AND EQUIPMENT FROM THE DRAWINGS.

WIRE TO ALL SOCKET OUTLETS AND POWER OUTLETS SHOWN

ALL POWER OUTLETS ARE TO BE OF THE RATINGS NOMINATED ON THE DRAWINGS AND ARE TO BE

PROVIDE CORRECTLY NUMBERED INSERTS TO ALLOW READY IDENTIFICATION OF EACH CIRCUIT NUMBER, FIX THE NUMBERS IN A PERMANENT MANNER, SCREW CONCEALING INSERTS ARE NOT

THIS SECTION OF THE SPECIFICATION SETS OUT THE MINIMUM REQUIREMENTS FOR THE DATA CABLING. WHICH IS TO BE SUPPLIED. INSTALLED AND TESTED UNDER THIS CONTRACT.

THE INSTALLATION SHALL INCLUDE ALL WORKS AND/OR MATERIALS NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH ARE NECESSARY FOR THE COMPLETE AND SATISFACTORY INSTALLATION OF THE SYSTEM, TO THE SATISFACTION OF THE ENGINEER.

DATA CABLING SHALL COMPLY WITH AS/CA SO09:2013 INSTALLATION REQUIREMENTS FOR CUSTOMER

BE WHOLLY RESPONSIBLE FOR ALL WORK, EMPLOYEES, AGENTS AND MATERIALS INCLUDED IN THE CONTRACT WORKS AS DETAILED ON THE CONTRACT DRAWINGS. FROM THE TIME OF SIGNING THE CONTRACT AGREEMENT UNTIL THE COMPLETION OF THE CONTRACT

BE RESPONSIBLE FOR AND MAKE GOOD ANY ACCIDENTAL DAMAGE TO SITE SERVICES, FENCING, PIPING, PATHS, ROAD, CURBS, GUTTERING OR ANY ADJOINING PROPERTY WHICH HAS BEEN DISTURBED OR DAMAGED DUE TO THE ACTIONS OF EMPLOYEES, SERVANTS OR AGENTS. ALL NECESSARY REPAIRS ARE TO BE CARRIED OUT PROPERLY AND TO APPROVAL OF THE SUPERINTENDENT. AT ALL TIMES MAINTAIN THE WORKING AREAS OF THE BUILDING IN A CLEAN AND TIDY CONDITION AND BE RESPONSIBLE FOR THE REGULAR REMOVAL OF ACCUMULATED WASTE AND SCRAP CAUSED BY THE PROGRESS OF THE WORK.

TEST THE INSTALLATION TO ENSURE THAT IT COMPLIES WITH THIS SPECIFICATION, IS MECHANICALLY AND ELECTRICALLY SAFE AND THAT IT WILL OPERATE AND FUNCTION CORRECTLY UNDER NORMAL. EMERGENCY AND FAULT CONDITIONS. CHECK ALL CONTROL PROTECTION AND SAFETY DEVICES FOR CORRECT ADJUSTMENT AND RATING. REPLACE ANY EQUIPMENT OR MATERIALS FOUND TO BE FAULTY OR REPAIR AT NO COST TO THE PRINCIPAL MAINTAIN RECORDS OF ALL TEST RESULTS AND

### WORKMANSHIP AND QUALITY OF WORK

ENSURE THAT FITTINGS, EQUIPMENT & MATERIALS PROVIDED ARE NEW, FIRST QUALITY & OF CORRECT DESIGN, TYPE, CONSTRUCTION AND CAPACITY TO EFFICIENTLY PERFORM THE WORK SPECIFIED. ALL WORKMANSHIP SHALL BE OF FIRST QUALITY.

ALLOW FOR ALL MAINTENANCE OF THE WORKS DURING THE DEFECTS LIABILITY PERIOD SPECIFIED IN THE CONDITIONS OF THE CONTRACT.

### FINAL COMPLETION

FOUR WEEKS PRIOR TO THE EXPIRY OF THE DEFECTS LIABILITY PERIOD. CARRY OUT AN INSPECTION OF THE CONTRACT WORKS IN CONJUNCTION WITH THE ENGINEER. A LIST OF ITEMS CONSIDERED UNSATISFACTORY BY THE INSPECTING PARTIES IS TO BE PREPARED & ALL SUCH RECTIFICATION WORK IS TO BE COMPLETED IN THE WEEK PRIOR TO THE EXPIRATION OF THE DEFECTS LIABILITY

### **DEFECTS LIABILITY PERIOD**

IF ANY SUCH DEFECTS ARE NOT REMIDIED WITHIN A REASONABLE TIME, THE SUPERINTENDENT MAY PROCEED TO HAVE THE WORK CARRIED OUT AT THE CONTRACTOR'S RISK & EXPENSED BY OTHER PARTIES. SUCH WORK CARRIED OUT WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHTS WHICH THE SUPERINTENDENT MAY HAVE AGAINST THE CONTRACTOR.

SHOULD THE CONTRACTOR REPLACE OR RENEW ANY PORTION OF THE CONTRACT WORKS DURING THE DEFECTS LIABILITY PERIOD, THEN THE PROVISIONS OF THIS CLAUSE IS TO APPLY TO THE PORTION OF THE CONTRACT WORKS SO REPLACED UNTIL THE EXPIRATION OF 6 MONTHS FROM THE DATE OF SUCH REPLACEMENT OR RENEWAL.

SOCKET OUTLETS ARE TO BE AS DESIGNATED IN THE RELEVANT CLAUSES OF AS/NZ3000-2007.

### DATA SYSTEM

CABLING (WIRING RULES).

### RESPONSIBILITY OF CONTRACTOR

## MAINTENANCE DURING DEFECTS LIABILITY PERIOD

RESPOND TO CALL OUTS FOR CABLE FAULTS REQUIRING MAINTENANCE ON THE WORKS INSTALLED UNDER THIS SPECIFICATION AND ATTEND ON SITE WITHIN 24 HOURS AFTER A RECEIPT OF CALL

SHOULD THERE BE NO RESPONSE THE ENGINEER WILL ARRANGE FOR OTHERS TO RECTIFY THE FAULT AND DIRECT THE CHARGE TO THE ELECTRICAL CONTRACTOR.

GUARANTEE THE WHOLE OF THE WORKS AGAINST DEFECTIVE WORKMANSHIP & MATERIALS FOR THE 12 MONTH DEFECTS LIABILITY PERIOD. THE DEFECTS LIABILITY PERIOD COMMENCES AT THE DATE OF PRACTICAL COMPLETION CERTIFIED BY THE ENGINEER DURING THIS PERIOD BE RESPONSIBLE FOR MAKING GOOD WITH ALL POSSIBLE SPEED. ANY DEFECTS ARISING FROM DEFECTIVE MATERIALS OR WORKMANSHIP OR FROM ANY ACT OF THE CONTRACTOR, SERVANT OR AGENT THAT MAY DEVELOP IN THE WORK OF THE CONTRACT



30-06-15

**ELECTRICAL SERVICES** SITE LAYOUT

TENDER ISSUE

Revisions Date

**LEGEND** 

**I**LED(B)**I** 

20.7W LED SURFACE MOUNTED 600x600 SQUARE FITTING. "EAGLE LIGHTING" AURELED FLOW. MODEL

13.5W LED (40°) RECESSED DOWNLIGHT (4000K).

BW (3000K) TC-D SURFACE MOUNTED BUNKER LIGHT. "SIMES" VEDO ROUND. MODEL No. S.6809

"KLIK SYSTEMS" KLIK ECO LED RANGE 5 W/m C/W

18W (3200K) HIGH CORROSION RESISTANCE MARINE GRADE STAINLESS STEEL 10MM THICK TOUGHENED

ACID-ETCHED GLASS IN GROUND LED STRIP C/W ASYMMETRIC REFLECTOR, RECESSING BOX & FAST

IP56 LED STRIP LIGHT (6000K) C/W IP56 REMOTE

LED MAINTAINED RECESSED BLADE EMERGENCY EXIT

XIT. MODEL No. PUBLED COSD5, C90SE3.2

DELAY. "CLIPSAL" MODEL No. 753R.

DOUBLE 10A G.P.O. (300 mm A.F.F.L.)

SINGLE 10A G.P.O. (300mm A.F.F.L.)

DISTRIBUTION BOARD / SWITCHBOARD.

CIRCUIT NUMBER / DISTRIBUTION BOARD NUMBER

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DEDICATED SINGLE G.P.O.

3ø POWER OUTLET.

TELEPHONE OUTLET

SINGLE SWITCH.

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**DB** 

DATA OUTLET

LIGHT WITH PICTOGRAM. "CLEVERTRONICS" ULTRABLADE

CEILING SURFACE MOUNTED 360° MOTION DETECTOR

WITH BUILT IN P.E. SENSOR & ADJUSTABLE TIME

1.3W RECESSED LED EMERGENCY LIGHT. "CLEVERTRONICS"

CONNECTOR. "SIMES" LINEAR STAINLESS STEEL

WALK-OVER. MODEL No. S.5942W.19

2x28W T5 DIFFUSED BATTEN FITTING. "EAGLE LIGHTING" MODEL No. EL-BAT-228-101-000

► LED → SNAP ON SURFACE MOUNTING CLIPS & REMOTE GEARS

AS REQUIRED. LENGTH TO SUIT LAYOUT.

"EAGLE LIGHTING" ORION PHANTOM. MODEL No.

3W LED 25° ADJUSTABLE 15° IN-GROUND

 UPLIGHTER C/W RECESSING BOX (3200K). "SIMES" MINIRING. MODEL No. S.4951W.19

EL-ORI-340-310-000

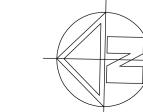
PROPOSED CHILDCARE REDEVELOPMENT S WESTS ROAD, MARIBYRNONG, VIC 3032

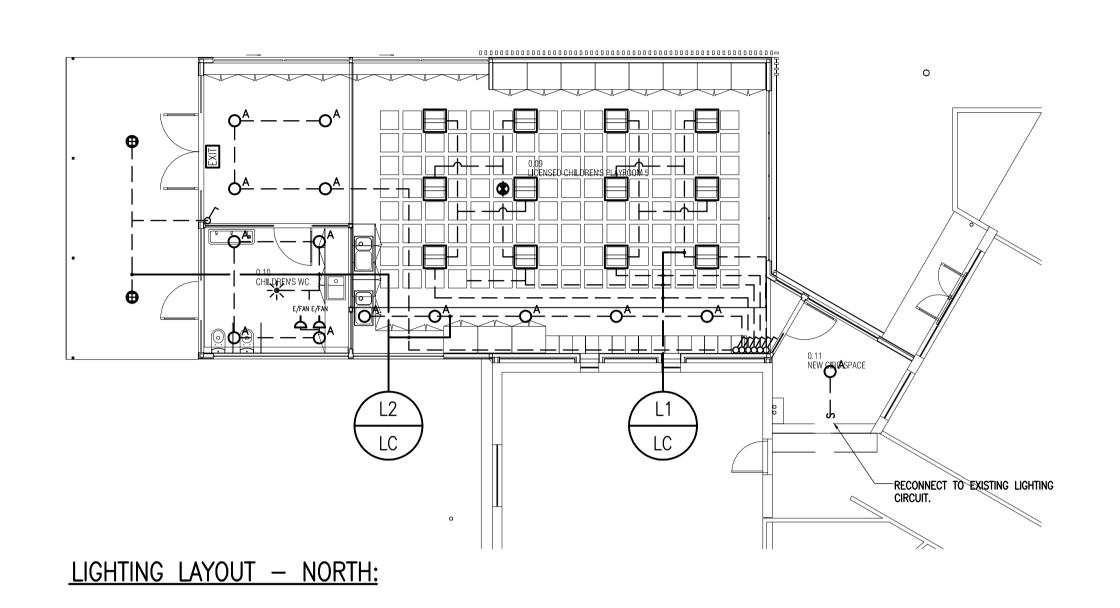
MARIBYRNONG CITY COUNCIL

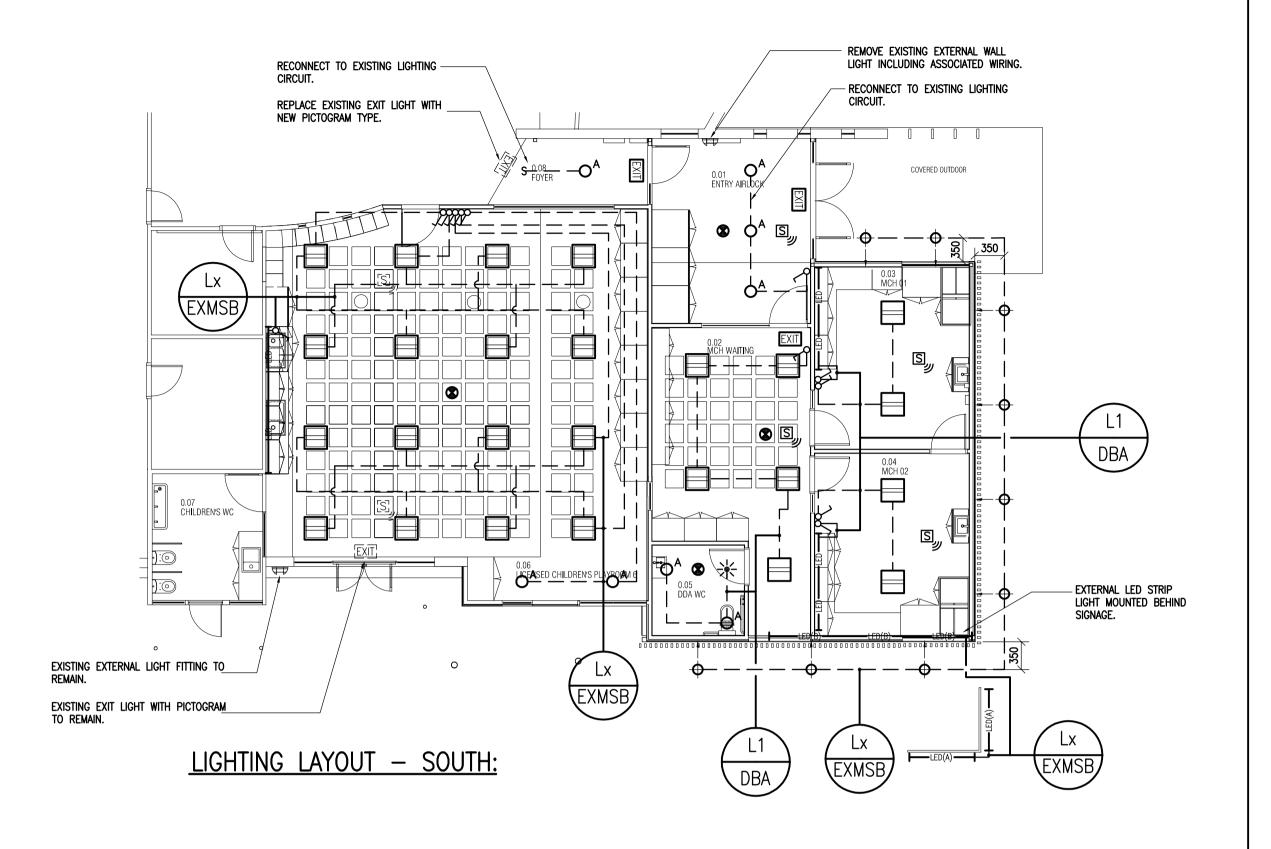
k20 ARCHITECTURE

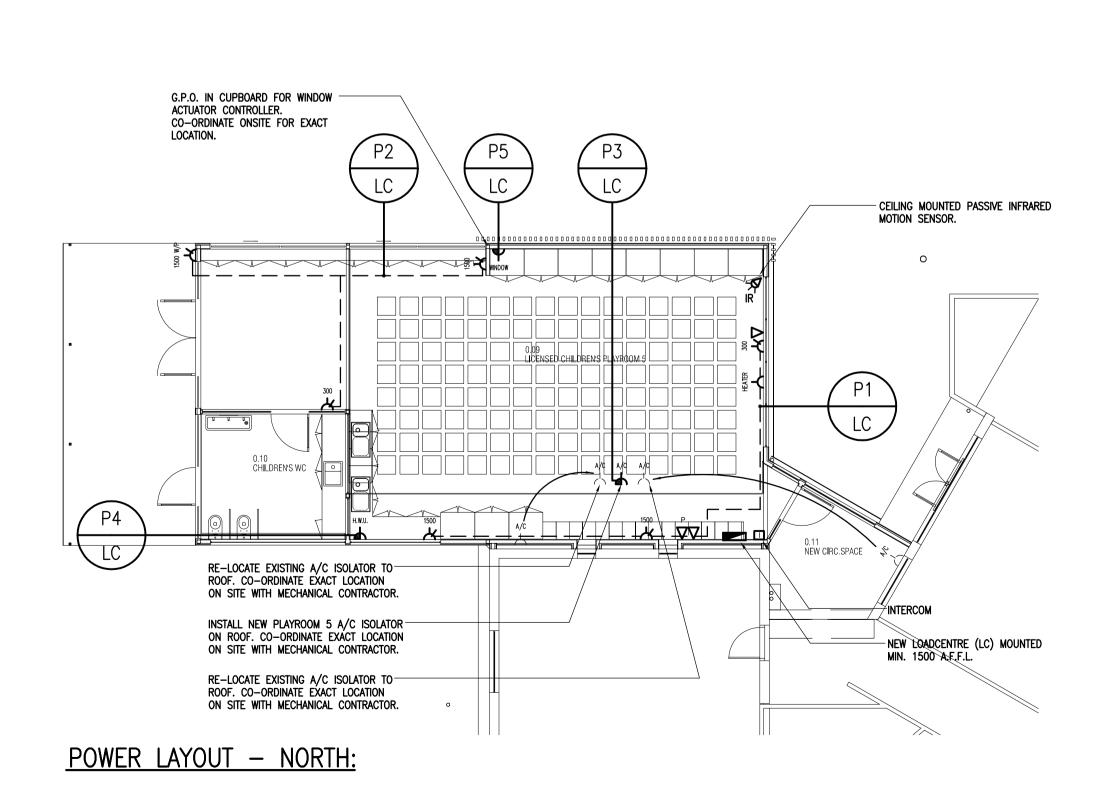
1: 200 @ A1 Project No. 15–1071 Drawn Drawing No. Checked E1 OF 3 Revision

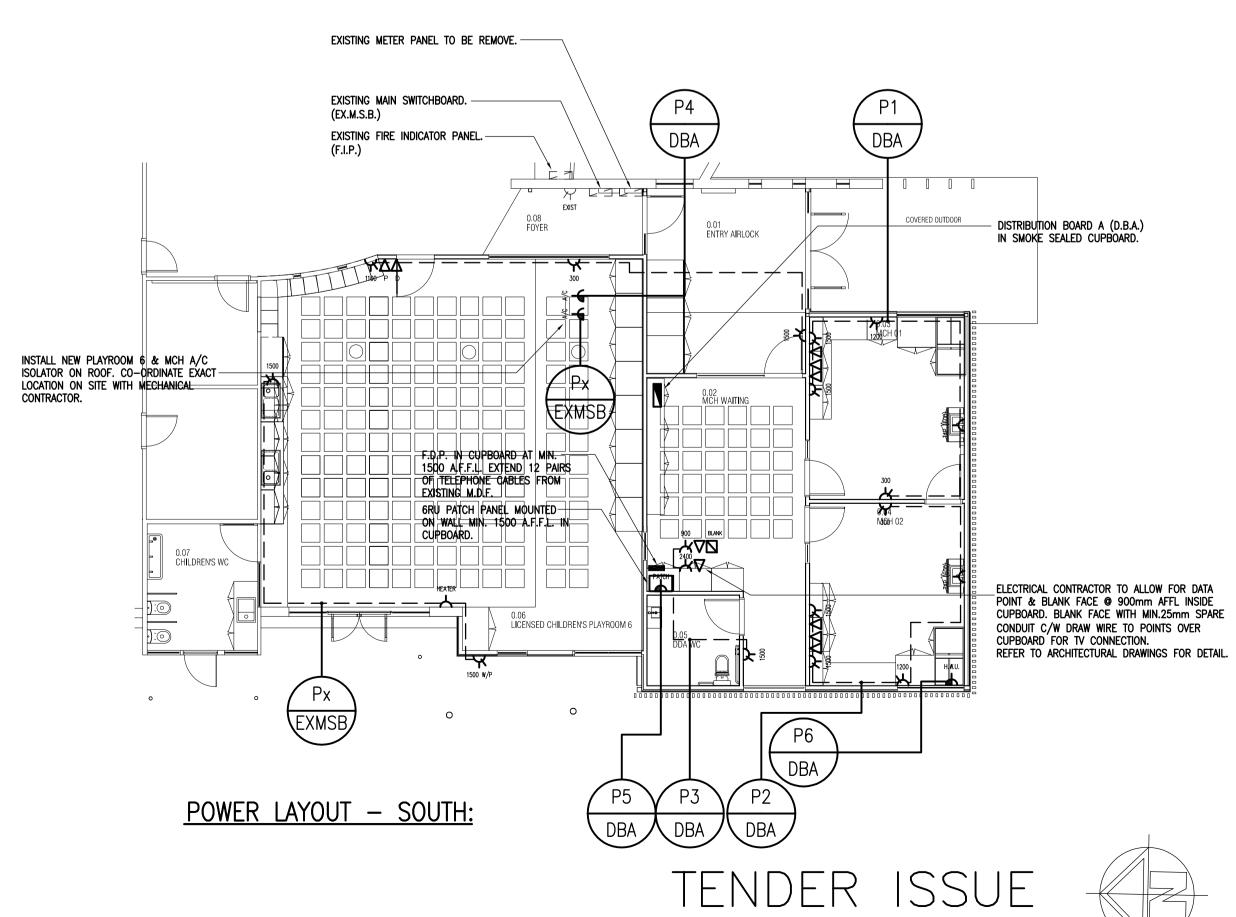
TENDER ISSUE

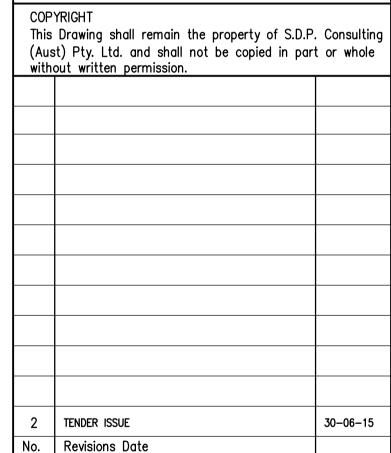














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# ELECTRICAL SERVICES LIGHTING & POWER LAYOUT

Project PROPOSED CHILDCARE REDEVELOPMENT 6 WESTS ROAD, MARIBYRNONG, VIC 3032

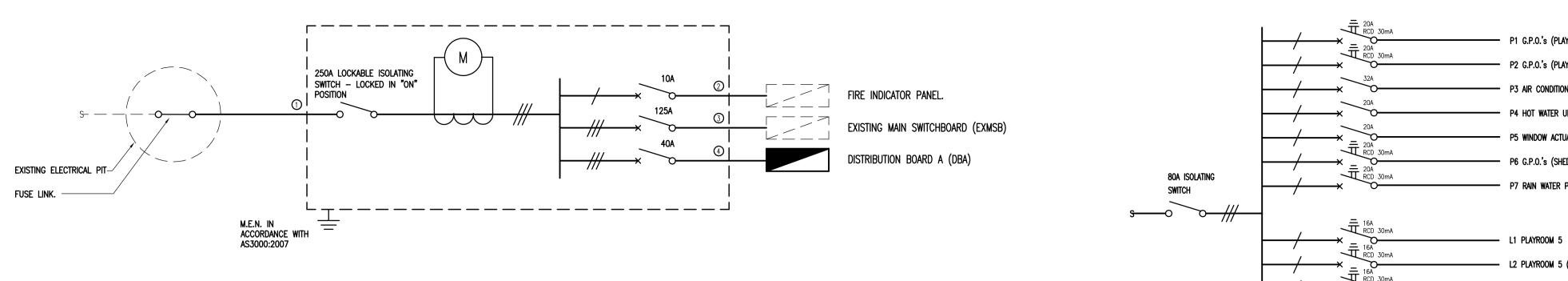
## MARIBYRNONG CITY COUNCIL

Architect
k20 ARCHITECTURE

Scale 1:100 @ A1 Project No.

Drawn C.R. 15—107

|  |          | 1.100 0 711 | 4- 40-4     |
|--|----------|-------------|-------------|
|  | Drawn    | C.R.        | 15–1071     |
|  | Checked  | J.L.        | Drawing No. |
|  | Date     | MAY '15     | E2 OF 3     |
|  | Revision |             | Issue 1     |



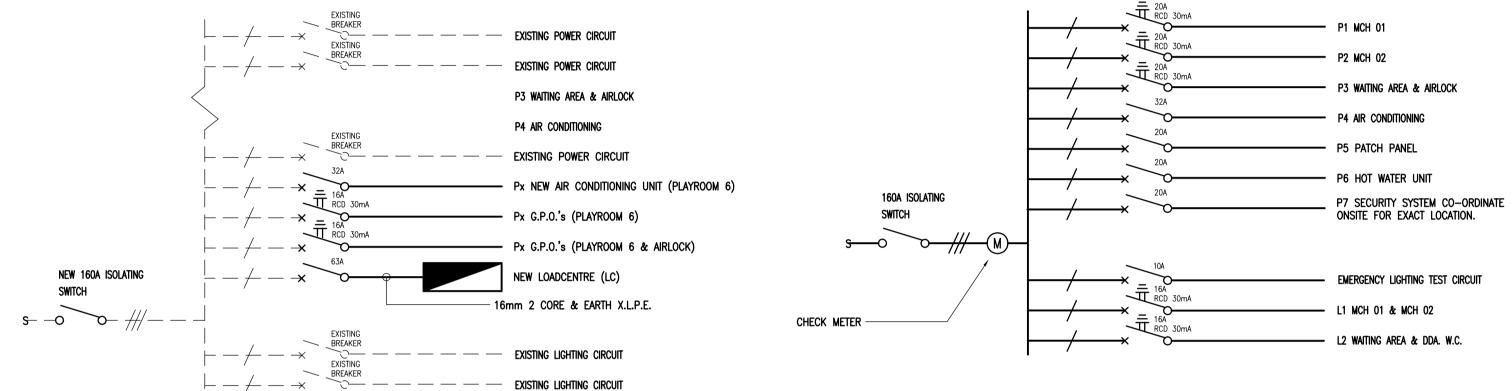
## MAIN SWITCHBOARD, C.T. CHAMBER & METER PANEL SCHEMATIC

- NOTE:

  1. DETERMINE MAXIMUM PROSPECTIVE FAULT CURRENT WITH AUTHORITY PRIOR COMMENCING MANUFACTURE OF SWITCHBOARD.

  2. CONTRACTOR IS RESPONSIBLE FOR DISCRIMINATION AND EQUAL POTENTIAL
- BONDING IN ACCORDANCE WITH AS3000-2007. FORM 2 SEPARATION.
- 4. CONTRACTOR TO ENSURE ESSENTIAL SERVICES ARE APPROPRIATELY
- SEGREGATED TO AS. 3000.

  5. INCOMING SUPPLY ARRANGEMENT MAY CHANGE DUE TO AUTHORITY OFFER



# DISTRIBUTION BOARD (DBA) SCHEMATIC.

NOTE: CONTRACTOR TO SUPPLY & INSTALL MIN. 24 POLE DISTRIBUTION BOARD.

| CABLE SC  | CABLE SCHEDULE                            |  |  |  |
|-----------|---|--|--|--|
| CABLE No. | TYPE & SIZE OF CABLE                      |  |  |  |
| 0         | MATCH INCOMING SUPPLY CABLE               |  |  |  |
| 2         | 2.5mm <sup>2</sup> 2 CORE & EARTH RADOX   |  |  |  |
| 3         | 50mm <sup>2</sup> 4 CORE & EARTH X.L.P.E. |  |  |  |

16mm<sup>2</sup> 4 CORE & EARTH X.L.P.E.

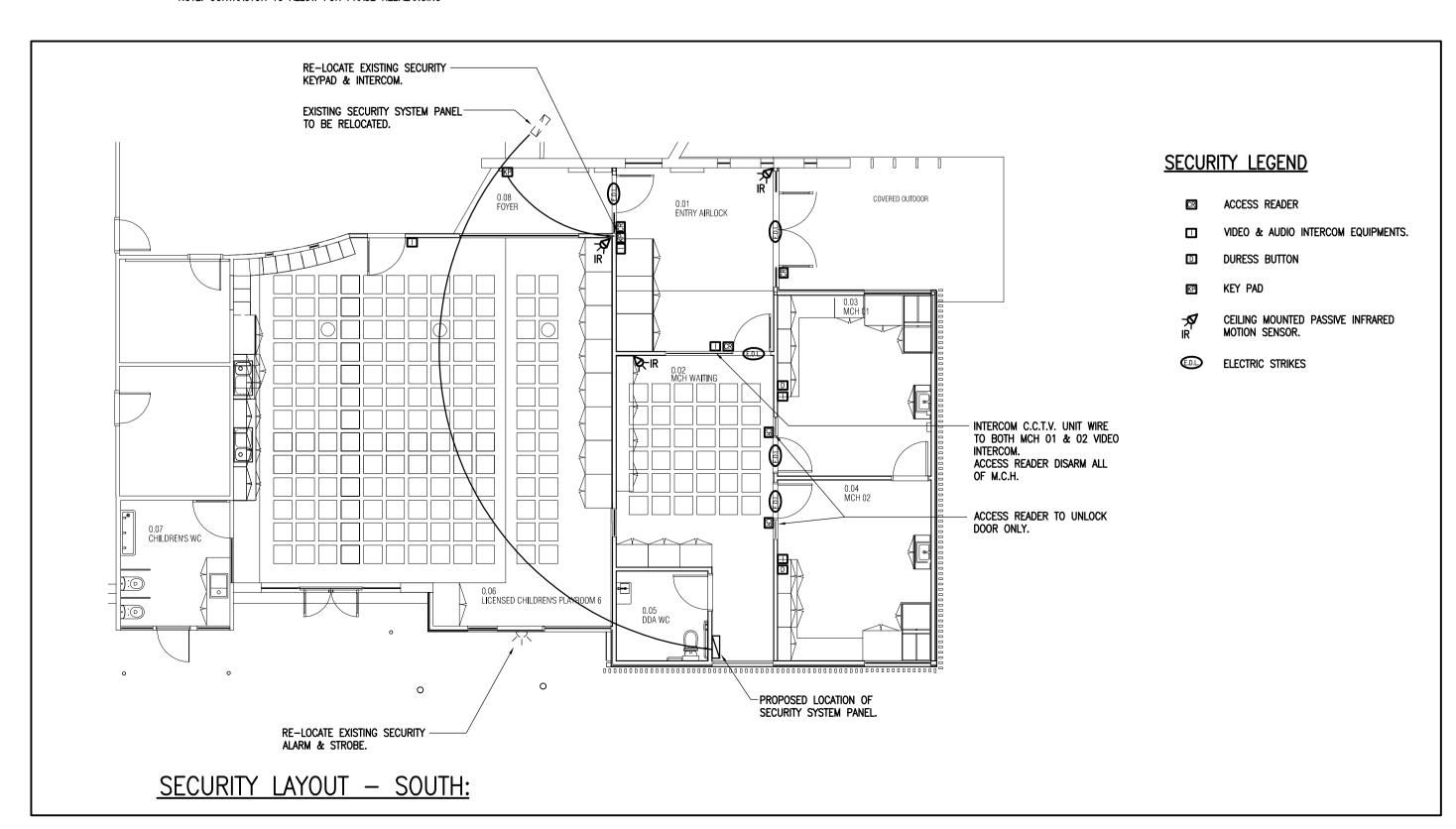
# EXISTING MAIN SWITCHBOARD (EXMSB) SCHEMATIC.

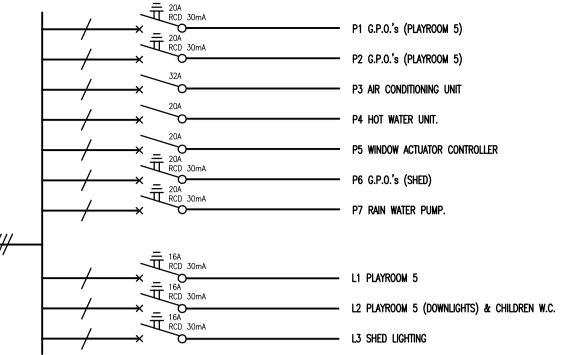
NOTE: CONTRACTOR TO ALLOW FOR PHASE REBALANCING

EXISTING BREAKER — — — — EXISTING POWER CIRCUIT

Lx LIGHTING (PLAYROOM 6)

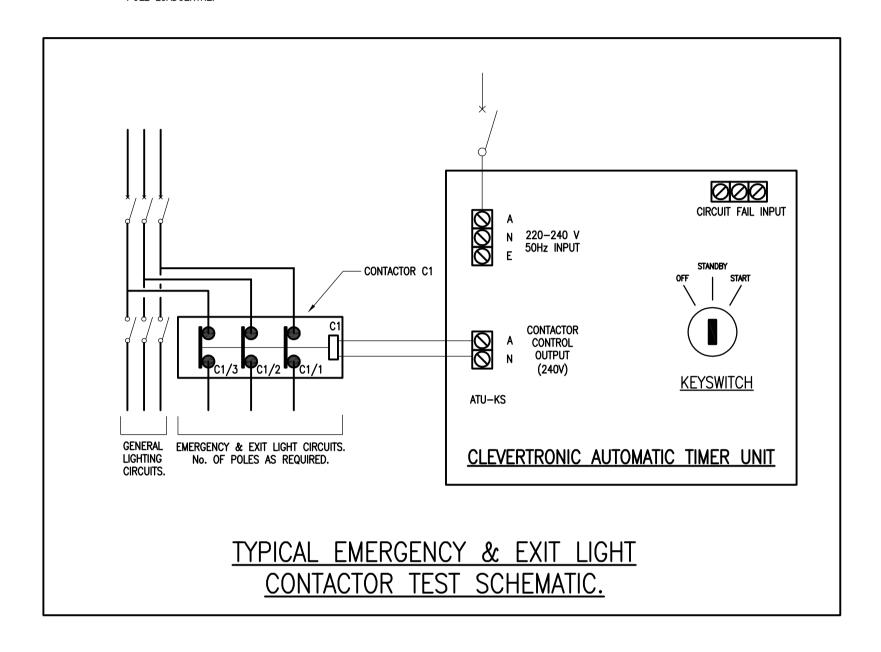
Lx LIGHTING (PLAYROOM 6)

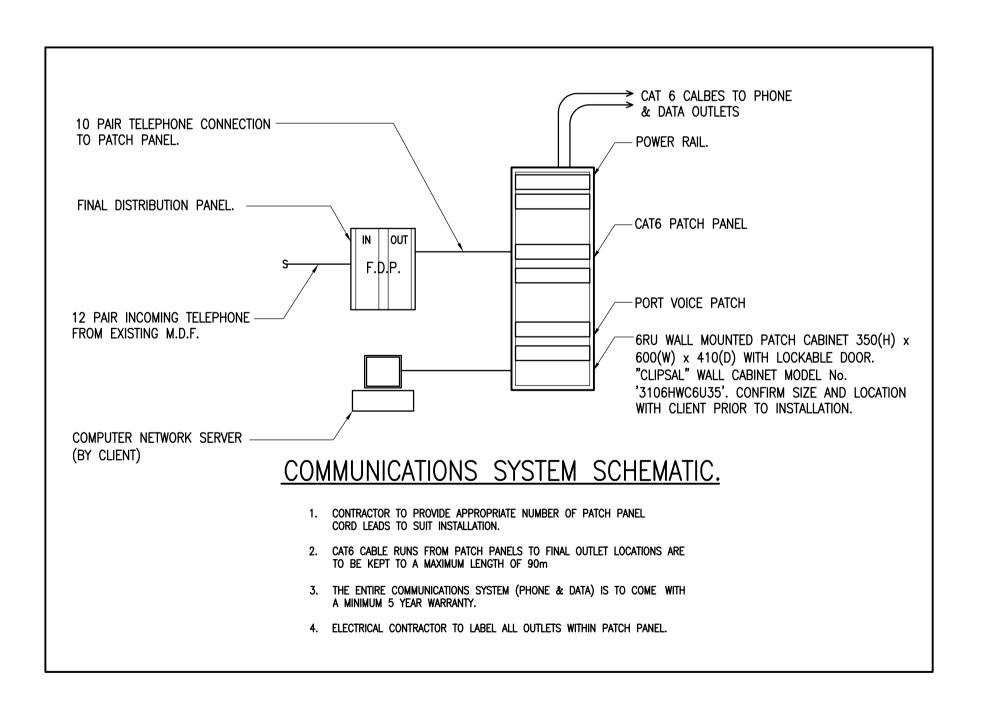




# LOADCENTRE (LC) SCHEMATIC.

NOTE: CONTRACTOR TO SUPPLY & INSTALL MIN. 18 POLE LOADCENTRE.





ELECTRICAL SERVICES SCHEMATICS

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Project PROPOSED CHILDCARE REDEVELOPMENT 6 WESTS ROAD, MARIBYRNONG, VIC 3032

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TENDER ISSUE

Revisions Date

MARIBYRNONG CITY COUNCIL Architect 120 ARCHITECTURE

| KZU AKU  | HILLIOKE          |             |
|----------|-------------------|-------------|
| Scale    | 1:100 <b>@</b> A1 | Project No. |
| Drawn    | J.L.              | 15–1071     |
| Checked  |                   | Drawing No. |
| Date     | MAY '15           | E3 OF 3     |
| Revision |                   | Issue 1     |

