

**NOTES**

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:  
 - SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.  
 - TESTING AND COMMISSIONING.  
 - MAINTENANCE.  
 - UNDERGROUND PIT AND CONDUIT SYSTEM.  
 - PROPERTY POLE.  
 - ENERGEX AERIAL CONNECTION.  
 - MAIN SWITCHBOARD.  
 - LIGHTING CIRCUITS AND CONTROL.  
 - CARPARK LIGHT POLES AND LIGHT FITTINGS.  
 - 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.

PRIOR TO COMMENCING WORK CONSULT SITE MANAGEMENT FOR ANY HAZARDOUS MATERIAL AND OR ASBESTOS REGISTERS AS WELL AS UNDERTAKE A THOROUGH INSPECTION OF THE SITE TO IDENTIFY ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS. ADVISE THE CONTRACTOR OF ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS IF IDENTIFIED AND DO NOT COMMENCE WORK UNTIL AN APPROPRIATE MANAGEMENT PLAN HAS BEEN DEVELOPED AND AGREED TO BY ALL PARTIES.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

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.

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.

**NOTES**

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.

- QECM V4.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4. CABLES

INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. PROVIDE ALL 240 VOLT CABLING TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174 SIZED AS DETAILED ON THE DRAWING, PROTECTED BY A 20 AMP RCBO. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053.

5. ENERGEX SUPPLY

ARRANGE WITH ENERGEX FOR A NEW SINGLE PHASE AERIAL SERVICE TO BE PROVIDED TO A NEW GALVANIZED STEEL PROPERTY POLE.

6. MAIN SWITCHBOARD

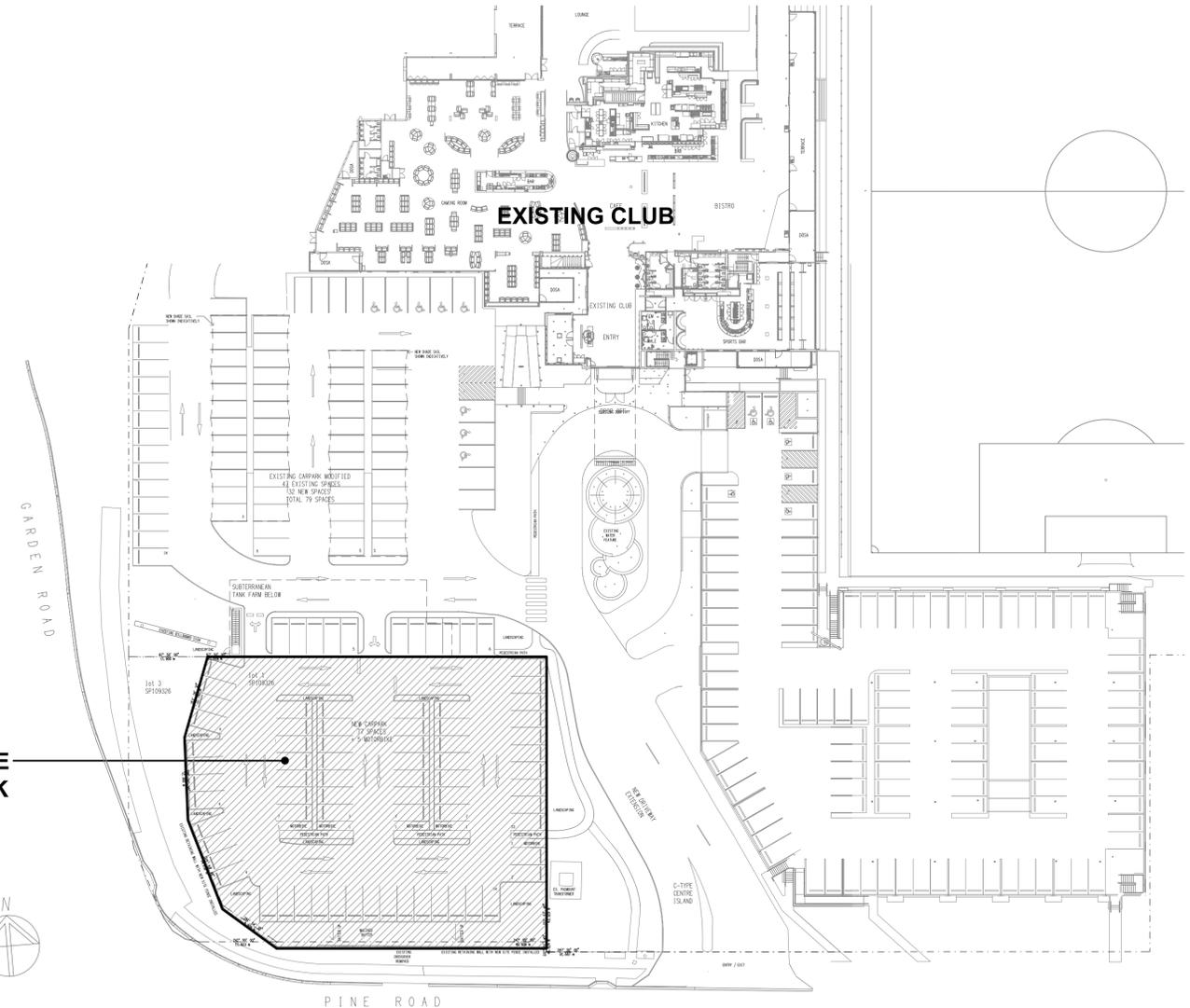
PROVIDE A NEW QECM V4 COMPLIANT SINGLE PHASE LOCKABLE WEATHERPROOF MAIN SWITCHBOARD MOUNTED TO THE PROPERTY POLE. PROVIDE RETAIL METERING AND ALL NECESSARY SWITCHGEAR AND CONTROLS WITHIN THE MAIN SWITCHBOARD. ALL CABLING TO AND FROM THE MAIN SWITCHBOARD IS TO DROP DOWN WITHIN THE PROPERTY POLE. THE MAIN SWITCHBOARD IS TO BE SURF MIST OR LIGHT GREY. PROVIDE AN ADJUSTABLE PE CELL MOUNTED ON THE TOP OF THE MAIN SWITCHBOARD TO CONTROL THE CARPARK LIGHTS WITH THE LIGHTS TURNING ON 30 MINUTES PRIOR TO DUSK AND OFF AT DAWN.

7. PITS AND CONDUITS

PROVIDE POWER AND COMMUNICATIONS CONDUITS AS INDICATED WITH ALL CONDUITS PROVIDED WITH A SPARE DRAW WIRE. BOTH POWER AND COMMUNICATIONS CONDUITS ARE TO TURN UP INTO THE LIGHT POLES. PROVIDE EACH PIT LOCATION WITH A TYPE 2 ACO CABLEMATE PLASTIC POWER PIT AND A COMMUNICATIONS PIT. PROVIDE THE COMMUNICATIONS PIT WITH A CLASS A CONCRETE COMMUNICATIONS LID AND THE POWER PIT WITH A CLASS CONCRETE ELECTRICITY LID.

8. L1 LIGHT FITTINGS

PROVIDE EACH L1 AS A M ELEC ML-ROX-100-4K-BK MOUNTED ON A 9M LIGHT DUTY GM POLE GALVANIZED TAPERED POWDER COATED BLACK C/W LOW LEVEL ACCESS HATCH, BASEPLATE AND FOUNDATION CAGE / BOLTS.



**PROPOSED ON-GRADE CARPARK**

**LOCATION PLAN**  
 ON-GRADE CARPARK WORKS  
 SCALE 1:500

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 PTY LTD  
 ACN 092 710 793  
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**ELECTRICAL DESIGN GROUP**  
 ELECTRICAL BUILDING SERVICES CONSULTANTS  
 BRISBANE GOLD COAST  
 P.O. Box 15, Sherwood Q.4075  
 Phone: (07) 3278 4375  
 Email: brisbane@edg.net.au  
 Web: www.edg.net.au

PROJECT:  
**THE LION RICHLANDS - ON-GRADE CARPARK**  
 133 PINE ROAD, RICHLANDS

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