

LEGEND

DB-E		EXISTING BUILDING DISTRIBUTION BOARD TO BE UPGRADED AS NECESSARY TO ACCOMMODATE THE NEW CIRCUIT BREAKER PROTECTING THE NEW DB-P SUBMAIN. PROVIDE A 63 AMP THREE PHASE MCB IN DB-E TO SUPPLY DB-P VIA A 4 X 1C X 95MM² AL XLPE / PVC + 35MM² E SUBMAIN. CONFIRM THE POSITION AND CABLE ACCESS WAYS TO DB-E ON SITE.
CR-E		EXISTING BUILDING COMMUNICATIONS RACK TO BE UPGRADED AS NECESSARY TO ACCOMMODATE THE NEW COMMUNICATIONS OUTLET. CONFIRM THE POSITION AND CABLE ACCESS WAYS TO CR-E ON SITE.
IRRIGATION CONTROLLER		CONFIRM THE GPO AND COMMUNICATIONS OUTLET POSITIONS ON SITE WITH THE SUPPLIER OF THE IRRIGATION CONTROLLER.
DB-P		PROVIDE DB-P AS A WALL MOUNTED NHP CONCEPT PREMIER CPR IP66 N42 48 POLE 250 AMP THREE PHASE CHASSIS C/W A 100 AMP THREE PHASE LOAD BREAK MAIN SWITCH PANEL DISTRIBUTION BOARD.
		DOUBLE GPO MOUNTED ON A DEEP MOUNTING BLOCK MOUNTED AT 500AFFL UNO. ALL GPOS ARE TO BE SUPPLIED FROM THE SAME NEW SINGLE PHASE POWER CIRCUIT.
		SINGLE PHASE 20 AMP IP56 ISOLATOR SUPPLIED FROM DB-P FOR THE PRESSURE PUMP MOTOR. CONFIRM THE LOCATION OF THE ISOLATOR WITH THE PRESSURE PUMP INSTALLER.
		THREE PHASE 25 AMP IP56 ISOLATOR SUPPLIED FROM DB-P FOR THE PUMP MOTOR. CONFIRM THE LOCATION OF THE ISOLATOR WITH THE PUMP INSTALLER.
		CAT 6 OUTLET SUPPLIED BY A UNDERGROUND GEL FILLED CAT 6 CABLE WITH A TOTAL LENGTH OF LESS THAN 90M FROM CR-E.
		WALL MOUNTED IP66 1200 LONG 4000K LED BATTEN C/W INTEGRAL PE SENSOR TO TURN ON AT DUCK AND OFF AT DAWN. THE L1 IS TO BE SUPPLIED FROM THE SAME NEW SINGLE PHASE LIGHTING CIRCUIT AS THE L2 FITTINGS.
		CEILING MOUNTED IP66 1200 LONG 4000K LED BATTEN C/W INTEGRAL MOVEMENT SENSOR. THE L2 FITTINGS ARE TO BE SUPPLIED FROM THE SAME NEW SINGLE PHASE LIGHTING CIRCUIT AS THE L1 FITTING.
RISER		PROVIDE A COLOUR BOND RISER OVER THE NEW POWER AND COMMUNICATIONS CONDUITS TO ALLOW THE CONDUITS TO RISE UP THE EXTERNAL WALL OF THE EXISTING BUILDING TO PROVIDE CABLE ACCESS TO THE CEILING SPACE. STOP THE DUCT 100 ABOVE THE GROUND LEVEL AND PROVIDE IT WITH A REINFORCED MASONRY PLINTH THAT FALLS AWAY FROM THE DUCT AND BUILDING TO PREVENT WATER FROM POOLING AGAINST THE DUCT OR BUILDING. CONFIRM THE POSITION OF THE RISER ON SITE.
PIT 1		PROVIDE PIT LOCATION PIT 1 AS A TYPE 77 POLYETHYLENE POWER PIT AND A TYPE 2 POLYETHYLENE COMMUNICATIONS PIT BOTH WITH CLASS C LIDS THAT MATCH THE EXISTING. PROVIDE THE PITS WITH A SQUARE REINFORCED CONCRETE SURROUND THAT EXTENDS AT LEAST 150MM PAST THE PIT EDGES AND FALLS AWAY FROM THE PITS. PROVIDE A 1M CUBE GRAVEL SOAKAGE BELOW THE PITS WITH A 35MM DIA DRAIN. THE COLLEGE WILL CONFIRM THE REFERENCE NUMBER OF EACH PIT WHICH IS TO BE MECHANICALLY FIXED TO THE PIT LIDS AS PER THE EXISTING PITS.
PIT 2		PROVIDE PIT LOCATION PIT 2 AS A TYPE 55 POLYETHYLENE POWER PIT AND A TYPE 2 POLYETHYLENE COMMUNICATIONS PIT BOTH WITH CLASS C LIDS THAT MATCH THE EXISTING. PROVIDE THE PITS WITH A SQUARE REINFORCED CONCRETE SURROUND THAT EXTENDS AT LEAST 150MM PAST THE PIT EDGES AND FALLS AWAY FROM THE PITS. THE COLLEGE WILL CONFIRM THE REFERENCE NUMBER OF EACH PIT WHICH IS TO BE MECHANICALLY FIXED TO THE PIT LIDS AS PER THE EXISTING PITS.
C-A		PROVIDE CONDUIT RUN CA AS 1 X 100 POWER CONDUIT FROM THE POWER PIT TO THE ADJACENT EXISTING BUILDING CEILING SPACE RISING UP BEHIND THE NEW EXTERNAL RISER AND 2 X 50 COMMUNICATIONS CONDUITS FROM THE COMMUNICATIONS PIT TO THE ADJACENT EXISTING BUILDING CEILING SPACE RISING UP BEHIND THE NEW EXTERNAL RISER. PROVIDE ALL CONDUITS WITH A SPARE DRAW WIRE.
C-B		PROVIDE CONDUIT RUN CB AS 1 X 100 POWER CONDUIT BETWEEN THE POWER PITS AND 2 X 50 COMMUNICATIONS CONDUITS BETWEEN THE COMMUNICATIONS PITS. PROVIDE ALL CONDUITS WITH A SPARE DRAW WIRE.
C-C		PROVIDE CONDUIT RUN CC AS 2 X 3 X 125 POWER CONDUIT BETWEEN THE POWER PITS AND 2 X 100 COMMUNICATIONS CONDUITS BETWEEN THE COMMUNICATIONS PITS. PROVIDE ALL CONDUITS WITH A SPARE DRAW WIRE.
C-D		PROVIDE CONDUIT RUN CD AS 1 X 100 POWER CONDUIT FROM THE POWER PIT TO TURN UP WITHIN THE ADJACENT PUMP SHED UNDER DB-P AND 2 X 50 COMMUNICATIONS CONDUITS FROM THE COMMUNICATIONS PIT TO TURN UP WITHIN THE ADJACENT PUMP SHED. PROVIDE ALL CONDUITS WITH A SPARE DRAW WIRE.
C-E		PROVIDE CONDUIT RUN CE AS 2 X 3 X 125 POWER CONDUIT BETWEEN THE POWER PITS AND 2 X 100 COMMUNICATIONS CONDUITS BETWEEN THE COMMUNICATIONS PITS. PROVIDE ALL CONDUITS WITH A SPARE DRAW WIRE.
C-F		PROVIDE CABLE ACCESS RUN CF AS CABLING RUN THROUGH THE BUILDING CEILING SPACE FROM THE NEW RISER TO DB-E AND CR-E.

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.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- REMOVE THE EXISTING SWITCHBOARD LOCATED IN THE MIDDLE OF THE PROPOSED OVAL INCLUDING ALL ASSOCIATED SERVICES AND THE EXISTING ENERGEX CONNECTION.
- 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 ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

EDC SYSTEMS PTY LTD, 3/40 PROPRIETARY ST, TINGALPA QUEENSLAND 4173 – ROBERT BLAKE 0422796412 PHONE 07 38907068 robert.blake@edcsystems.com.au ARE TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO PROVIDE A CAT 6 OUTLET WITHIN THE SHED SUPPLIED FROM CR-E VIA UNDERGROUND CAT 6 CABLE. THE POSITION OF ALL UNDERGROUND PIT AND CONDUITS ALONG WITH THE ASSOCIATED TRENCHING MUST BE UNDERTAKEN IN ACCORDANCE WITH THE VEGETATION MANAGEMENT PLAN.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR 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.

OUTSIDE OF THE SHED CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE OUTSIDE OF THE SHED. 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.
- AS/NZS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

5. CABLES

PROVIDE A NEW SINGLE PHASE 20 AMP RCBO PROTECTED 2.5mm² POWER CIRCUIT AND SECOND CIRCUIT FOR LIGHTING FROM DB-P TO THE PUMP SHED GPOS AND LIGHTS ACCORDINGLY. PROVIDE A NEW THREE PHASE MOTOR START 25 AMP RCBO PROTECTED 4mm² CIRCUIT FROM DB-P TO THE PUMP.

PROVIDE A NEW SINGLE PHASE MOTOR START 20 AMP RCBO PROTECTED 2.5mm² POWER CIRCUIT FROM DB-P TO THE PRESSURE PUMP.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793		THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.		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: ORMISTON COLLEGE MEADOWLANDS JUNIOR SPORTS PRECINCT		C CONSTRUCTION REV: DESCRIPTION: DATE: 29/06/2026			
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		ALL DIMENSIONS TO BE VERIFIED ONSITE.		97 DUNDAS STREET WEST, ORMISTON		SCALE: NOT TO SCALE AT A1		PROJECT NO: C3515a	DRAWING NO: E01	REVISION: C