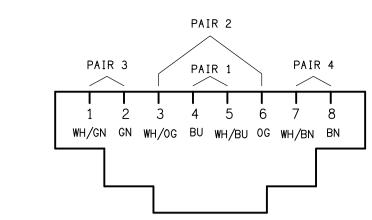
LEGEND

	THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK www.edg.net.au/links.html							
	TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No			
L1O	L1	200W LED 4000K	IP65 120DEG HIGH BAY C/W INTEGRAL DRIVER. SURFACE MOUNT THE FITTING TO THE CEILING WITH AN ADJUSTABLE BRACKET WITH THE FITTINGS SET TO HORIZONTAL	BLACK FITTING AND BRACKET	GAMMA ILLUMINATION ORBIT 881537-4K PLUS SURFACE BRACKET 483.			
L2O	L2	100W LED 4000K	IP65 120DEG HIGH BAY C/W INTEGRAL DRIVER. SURFACE MOUNT THE FITTING TO THE CEILING WITH AN ADJUSTABLE BRACKET WITH THE FITTINGS SET TO HORIZONTAL	BLACK FITTING AND BRACKET	GAMMA ILLUMINATION ORBIT 881538-4K PLUS SURFACE BRACKET 483.			
L3	L3	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR	LIGHT GREY	GAMMA ILLUMINATION STORM 1558-CCT-36W-MS			
ᅜ	L4	120W LED 4000K	IP65 FLOOD LIGHT C/W INTEGRAL DRIVER MOUNTED AT HIGH LEVEL ADJUSTABLE BELOW THE ROOF. CONFIRM THE AIMING ANGLE ON SITE WITH THE SCHOOLS MAINTENANCE STAFF	BLACK	GAMMA ILLUMINATION ALTUS 1696-4K-120W			
E1 	E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	WHITE	CLEVERTRONICS CLIFE-PRO			
SP	LIGHTING CONTROL SWITCH PANEL (SP)		PROVIDE THE LIGHTING CONTROL SWITCH PANEL AS A FLUSH RECESSED IP66 316 STAINLESS STEEL ENCLOSURE C/W HINGED LOCKABLE LID CONTAINING TWO MULTI GANG FACEPLATES THE TV SHUTTER CONTROL SWITCH A6 AND THE SECURITY KEY PANEL AS PER THE SP DETAIL. THE LOCK IS TO BE KEYED TO THE SCHOOLS EXISTING KEY SYSTEM. PROVIDE THE ENCLOSURE WITH A FLUSH MOUNTING TRIM AND ENSURE THERE ARE NO PROTRUSIONS OUT FROM THE WALL MORE THAN 25MM. ALL PROTRUSIONS AND ACCESSIBLE EDGES ARE TO BE ROUNDED SUCH THAT THERE ARE NO SHARP EDGES OR CORNERS. WALL MOUNTED AT 1000mm AFFL.	STAINLESS STEEL ENCLOSURE WHITE FACEPLATES	ENCLOSURE PLUS CLIPSAL C2000 SERIES FACEPLATES			
IP65 🗪	DOUBLE IF	P65 POWER	DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT ABOVE BENCH U.N.O	WHITE	TRANSCO NEPTUNE P2DWS			
4	SINGLE PO	OWER OUTLET	SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT ABOVE BENCH U.N.O.	WHITE	CLIPSAL C2000 SERIES			
	DOUBLE P	OWER OUTLET	DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT ABOVE BENCH U.N.O	WHITE	CLIPSAL C2000 SERIES			
CR-1 🔯	COMMUNICATIONS RACK CR-1		EXISTING POOL COMMUNICATIONS RACK UPGRADE THE EXISTING FOBOT TO ACCOMMODATE THE ADDITIONAL CR-B FIBRE CABLE					
СR-В⊠	COMMUNICATIONS RACK CR-B		PROVIDE A LOCKABLE 600 DEEP 22RU MINIMUM WALL MOUNTED COMMUNICATIONS RACK TO BE USED TO FACILITATE THE NEW COMMUNICATIONS CABLE PATCH PANELS, FOBOT LOCAL PA EQUIPMENT AND SCHOOL BELL EQUIPMENT. CONFIRM THE LAYOUT OF THE NEW EQUIPMENT IN THE RACK WITH THE SCHOOLS IT STAFF. LOCATE THE ASSOCIATED POWER OUTLET WITHIN THE RACK AND PROVIDE A 6 PORT POWER RAIL ALONG THE REAR OF THE RACK. CONNECT THE NEW RACK TO THE EXISTING CENTRAL ADMINISTRATION BUILDING RACK WITH A NEW UNDERGROUND FIBRE CABLE. MOUNT THE RACK AT HIGH LEVEL.					
▼	CAT 6 COMMUNICATIONS OUTLET		RJ45 CAT-6A SHIELDED COMMUNICATIONS OUTLET, CABLED BACK TO THE COMMUNICATIONS RACK TERMINATED ONTO FACILITY PATCH PANELS VIA 4-PAIR CAT-6 SHIELDED TWISTED PAIR CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. POSITION THE CEIL MOUNTED OUTLET FACEPLATES 50MM ON THE PLASTER BOARD 50MM FROM THE EDGE OF THE EXPOSED STEEL.	WHITE	CLIPSAL "C2000 SERIES" COMMSSCOPE OUTLET			
	SCHOOL BELL RECESSED SPEAKER		FLUSH RECESSED MULTI TAPPED 60W COAXIAL CAN SPEAKER CONNECTED TO A HIGH SCHOOL EXTERNAL SCHOOL BELL SYSTEM AMPLIFIER MOUNTED IN THE COMMUNICATIONS RACK CR-B BALANCE THE SPEAKER / ADJUST THE TAPS TO THE SATISFACTION OF THE SCHOOLS MAINTENANCE STAFF	WHITE	AUSTRALIAN MONITOR QF60CS			
©	PA SYSTE SPEAKER	M RECESSED	FLUSH RECESSED MULTI TAPPED 60W COAXIAL CAN SPEAKER CONNECTED TO THE LOCAL RADIO MICROPHONE PA SYSTEM AMPLIFIER MOUNTED IN THE COMMUNICATIONS RACK CR-B BALANCE THE SPEAKER / ADJUST THE TAPS TO THE SATISFACTION OF THE SCHOOLS MAINTENANCE STAFF	WHITE	AUSTRALIAN MONITOR QF60CS			
\forall	RADIO MIO ANTENNA	CROPHONE	IMPACT RESISTANT RADIO MICROPHONE ANTENNA CONNECTED SYSTEM AMPLIFIER MOUNTED IN THE COMMUNICATIONS RACK (
DGP	SECURITY PANEL (DO	' DATA GATHERING GP)	SECURITY DATA GATHERING PANEL CONNECTED TO THE SCHOOLS EXISTING SECURITY SYSTEM VIA FIBRE MODEMS LOCATE THE DATA GATHERING PANEL AT 2400 ADJACENT THE CR-B AND LOCATE THE GPO WITHIN THE PANEL. PROVIDE A CONCEALED FIBRE PATCH LEAD FROM THE DGP THROUGH THE WALL INTO THE COMMUNICATIONS RACK FOR CONNECTION INTO THE FOBOT. THE DGP TYPE IS TO MATCH THE EXISTING DGPS. PROGRAM THE SECURITY SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW DGPS AND CHANGES TO THE SATISFACTION OF THE OPERATOR.					
	SECURITY	SECURITY PIEZO SIREN SURFACE PIEZO SIREN SUBMIT DETAILS FOR APPROVAL PRIOR TO ORDERING						
→ ▷	SECURITY DETECTO	'INTRUDER R	DUAL-TECHNOLOGY MOVEMENT DETECTORS WALL MOUNTED AS PER THE MANUFACTURER'S SPECIFICATION. CONNECT TO THE LOCAL SECURITY EQUIPMENT WITH ONE DETECTOR PER ZONE. TYPE TO MATCH THE EXISTING JUNIOR SCHOOL DETECTORS. PROGRAM THE SECURITY SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW DETECTORS AND CHANGES TO THE SATISFACTION OF THE OPERATOR. SUBMIT DETAILS FOR APPROVAL PRIOR TO ORDERING					
КР	SECURITY (KP)	SYSTEM KEYPAD	LCD KEYPAD TYPE TO MATCH THE EXISTING MOUNTED WITHIN THE SP ENCLOSURE. CONNECT TO THE LOCAL SECURITY EQUIPMENT. PROGRAM THE SECURITY SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW KEY PANELS AND CHANGES TO THE SATISFACTION OF THE OPERATOR. SUBMIT DETAILS FOR APPROVAL PRIOR TO ORDERING					
В-В	DB-B		PROVIDE DB-B A NEW IP44 METAL DISTRIBUTION BOARD AS PER THE NOTES AND DISTRIBUTION SCHEDULE. SUPPLY THE NEW DISTRIBUTION BOARD FROM A NEW 40 AMP MCB IN DB-14 VIA A NEW CORE 50mm Cu XLPE / PVC + E UNDERGROUND SUBMAIN. PROVIDE A TOOL REMOVABLE COLOURBOND HAT SECTION FROM THE DISTRIBUTION BOARD TO THE FLOOR. PROVIDE A SHOP DRAWING FOR APPROVAL.					
B-14 	DB-14	EXISTING SCIENCE BUILDING DISTRIBUTION ROARD TO BE PROVIDED WITH A NEW MCR TO SUPPLY DRAB						

UPDATE THE LABEL AND SCHEDULE ACCORDINGLY.

LEGEND

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE		
A PRE-TERMINATED HDMI 2 CABLE WITH A LENGTH LESS THAN 5M FROM THE TV (A1) TO EACH OF THE A2 FACEPLATES. PROVIDE A RCA AUDIO CONNECTION FROM THE TV (A1) TO THE RADIO MICROPHONE PA SY MIXER AMPLIFIER IN CR-B. PROVIDED A BRUSH CABLE ACCESS FACEPLATE ON THE WALL BEHIND THE TV FACILITATE CABLE ACCESS FROM THE WALL ONTO THE ACCESS WAY TO THE TV PROVIDED BY THE BUILD						
ACCESS	POINT 2 (A2)	HDMI OUTLET ON A FACEPLATE C/W HINGED COVER MATCHING THE ADJACENT GPO FACEPLATE. MOUNT TI HDMI OUTLET ADJACENT THE IP65 GPO. CONNECT THE HDMI OUTLET TO THE A1 OUTLET VIA A HDMI 2 CABL CONCEALED WITHIN THE WALL.				
ACCESS POINT 3 (A3)		BACKBOARD MOTOR. TERMINATE THE CONTROL WIRING AND POWER SUPPLY INTO THE MOTOR CONTROLLER MOUNTED BELOW THE CEILING AS PER THE MOTOR CONTROLLER INSTRUCTIONS.				
ACCESS POINT 4 (A4)		3 CORE 2.5MM 240V CONTROL CABLE RUN FROM THE A4 LOCATION WALL MOUNTED AT 1000 AFFL TO THE A LOCATION TO CONTROL THE BACKBOARD. TERMINATE THE CONTROL WIRING INTO THE KEY SWITCH AS FITTHE KEY SWITCH INSTRUCTIONS				
CONDUIT	ACCESS A (CA)	PROVIDE A 100 DIA POWER CONDUIT UNDERGROUND FROM PIT 1 TO RISE UP WITHIN THE MECHANICAL SERVICES PLANT ENCLOSURE AS PER THE DB-14 CABLE ACCESS DETAIL. PROVIDE HAT SECTION OVER THE CABLE FROM THE SLAB PENETRATION TO DB-14 MODIFYING THE EXISTING MECHANICAL SERVICES HAT SECTIONS AS NECESSARY. PROVIDE THE CONDUIT WITH A SPARE DRAW WIRE.				
CONDUIT	ACCESS B (CB)	PROVIDE TWO 100 DIA POWER CONDUITS UNDERGROUND BETWEEN PIT 1 AND PIT 1. PROVIDE THE CONDUITS EACH WITH A SPARE DRAW WIRE.				
CONDUIT	ACCESS C (CC)	PROVIDE A 100 DIA POWER CONDUIT UNDERGROUND FROM PIT 2 TO RISE UP INTO A HAT SECTION BELOW DB-B. PROVIDE THE CONDUIT WITH A SPARE DRAW WIRE.				
CONDUIT	ACCESS D (CD)	PROVIDE TWO X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE EXISTING COMMUNICATIONS PIT TO RISE UP AGAINST THE WALL INTO CR-B. PROVIDE THE CONDUITS EACH WITH A SPARE DRAW WIRE.				
PIT 1		PROVIDE PIT 1 AS A NEW POWER PIT WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST CONCRETE PIT AND PRECAST CONCRETE RISERS AS REQUIRED. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP THE PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PIT TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A 1 M CUBED GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PIT / LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT.	POWER PIT 450 X 4400 OPENING X 700 MIN DEPTH	"DURHAM CAC4 S44B , R4XX AN P444-C "		
PIT 2		PROVIDE PIT 2 AS A NEW POWER PIT WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST CONCRETE PIT AND PRECAST CONCRETE RISERS AS REQUIRED. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP THE PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PIT TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A 1 M CUBED GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PIT / LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT.	POWER PIT 450 X 4400 OPENING X 700 MIN DEPTH	"DURHAM CAC4 S44B , R4XX AN P444-C "		
EXISTING	DIT	EXISTING ELECTRICAL PIT TO REMAIN AS IS				



SCHEMATIC

RJ45 PINOUT CONFIGURATION NOT TO SCALE

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.

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.

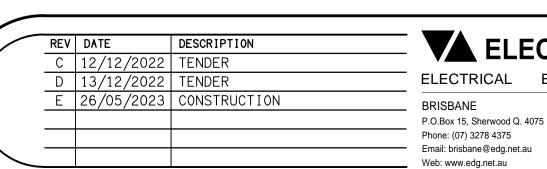
Rx - RELAY x. - EMERGENCY LIGHTING CONTROL CIRCUIT BREAKER. LAMP -EMERGENCY LIGHT UNSWITCHED ACTIVE. GENERAL LIGHTING - WITHIN THE VICINITY OF THE EMERGENCY LIGHTS. GENERAL LIGHTING -CIRCUIT BREAKER. GENERAL LIGHTING - WITHIN THE VICINITY OF THE EMERGENCY LIGHTS.

NOTES

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 EMERGENCY LIGHTING NOT TO SCALE



ELECTRICAL DESIGN GROUP ELECTRICAL

BUILDING SERVICES CONSULTANTS

THE ROMAN CATHOLIC TRUST CORPORATION FOR THE DIOCESE GOLD COAST OF TOWNSVILLE

CLIENT

PROJECT RYAN CATHOLIC COLLEGE,

ELECTRICAL SERVICES COVERED AREA BALL COURTS LEGEND

DRAWING TITLE

59 CANTERBURY ROAD, KIRWAN, QLD



G+D GROUP (QLD)

Level 3 Toowong Terraces 31 Sherwood Road Toowong Q 4066 T (07) 3870 3722 F (07) 3870 3822 E admin@gdgroupqld.com.au

DATE C2824a SCALE N.T.S EDG PROJECT No. E01 DRAWN EDG DWG No. REV CHECKED