



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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### C2431a - ORMISTON COLLEGE - SCIENCE BUILDING

C2431a-0008(B).xls

#### DISTRIBUTION BOARD DB-L

#### REVISION B - 11 JULY 2022

	REV
FAULT CURRENT: 6kA UTILISING CASCADING MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH	A
CHASSIS SIZE: 60 POLES SUPPLIED FROM: DB-23	A
CHASSIS RATING: 250A SUPPLY CABLE: 1C 50	A
PHASES: 3	A

PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION.

CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm <sup>2</sup> )	LOCATION	CIRCUIT USE	
L1	1	20	RCD C1	2.5	SECURITY	LIGHTS	A
L2	1	20	RCD C2	2.5	CIRCULATION	LIGHTS	A
L3	1	20	RCD C2	2.5	CIRCULATION	LIGHTS	A
L4	1	20	RCD C3	2.5	CIRCULATION	LIGHTS	A
L5	1	20	RCD C3	2.5	CIRCULATION	LIGHTS	A
L6	1	20	RCD C3	2.5	CIRCULATION	LIGHTS	A
L7	1	20	RCD C4	2.5	CIRCULATION	LIGHTS	A
L8	1	20	RCD C5	2.5	CIRCULATION	LIGHTS	A
L9	1	20	RCD	2.5	AMENITY	LIGHTS	A
L10	1	20	RCD	2.5	AMENITY	LIGHTS	A
L11	1	20	RCD	2.5	AMENITY	LIGHTS	A
L12	1	20	RCD C6	2.5	PLANT	LIGHTS	B
L13	1	20	RCD C6	2.5	JUNIOR WET LAB	LIGHTS	B
L14	1	20	RCD C6	2.5	PHYSICS LAB	LIGHTS	B
L15	1	20	RCD C6	2.5	GLA	LIGHTS	B
L16	1	20	RCD C6	2.5	GLA	LIGHTS	B
L17	1	20	RCD C6	2.5	PHYSICS LAB	LIGHTS	B
L18	1	20	RCD C6	2.5	PREP	LIGHTS	B
L19	1	20	RCD C6	2.5	STAFF	LIGHTS	B
L20	1	20	RCD C6	2.5	EEI	LIGHTS	B
L21	1	20	RCD C6	2.5	STORE	LIGHTS	B
L22	1	20	RCD C6	2.5	PREP	LIGHTS	B
L23	1	20	RCD C6	2.5	BIO LAB	LIGHTS	B
L24	1	20	RCD C6	2.5	BIO LAB	LIGHTS	B
L25	1	20	RCD C6	2.5	MARINE	LIGHTS	B
L26	1	20	RCD C6	2.5	CHEM LAB	LIGHTS	B
L27	1	20	RCD C6	2.5	CHEM LAB	LIGHTS	B
L28	1	20	RCD C6	2.5	CHEM LAB	LIGHTS	B