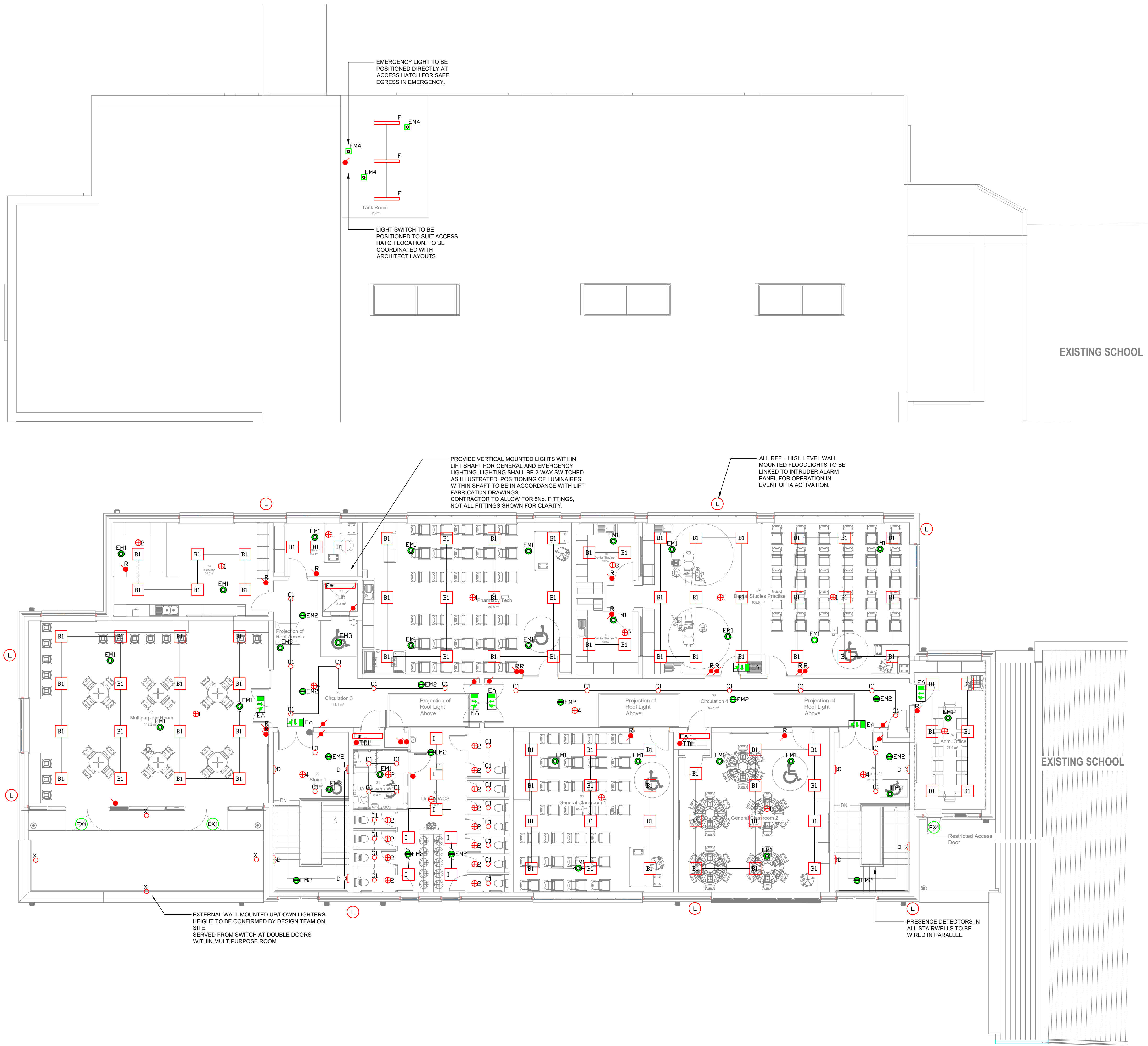


THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING WORKING DRAWINGS



LIGHTING SYMBOLS	
	CIRCULAR LUMINAIRE REFER TO SPECIFICATION
	LINEAR LUMINAIRE REFER TO SPECIFICATION
	GENERAL LUMINAIRE REFER TO SPECIFICATION
	WALL LUMINAIRE REFER TO SPECIFICATION
	GENERAL LUMINAIRE REFER TO SPECIFICATION
	GENERAL LUMINAIRE REFER TO SPECIFICATION
	PHOTOCELL
	PRESENCE DETECTOR (SENSOR) c/w PHOTOCELL. LETTER DENOTES TYPE. e.g. REF S1, S2, S3 etc.
	TIME CLOCK FOR EXTERNAL LIGHTING C/W POWER SUPPLY
	LIGHTSWITCH GENERAL
	2-WAY LIGHTSWITCH
	MULTI-GANG LIGHTING KEYSWITCH
	KEY-SWITCH FOR CORRIDOR LUMINAIRES
	PULL-CORD SWITCH
	DIMMER LIGHT SWITCH
	PUSH TO MAKE SWITCH (RETRACTABLE)
	LIGHT SWITCH C/W INDICATOR (NEON PLATE SWITCH LOCATOR)
	WEATHERPROOF SWITCH (IP65 RATED)
	TIME LAG SWITCH
	INTERMEDIATE SWITCH
	KEY-SWITCH (GENERAL)
	DIRECTIONAL EMERGENCY EXIT FITTING
	DENOTES LUMINAIRE C/W 3 HOUR EMERGENCY PACK
	DENOTES LUMINAIRE C/W 3 HOUR EMERGENCY PACK
	SUB-DISTRIBUTION BOARD
	MAIN-DISTRIBUTION BOARD
	HAND-OFF-AUTO EXTERIOR LIGHTING OVERRRIDE
	EMERGENCY LUMINAIRE TWIN-SPOT
	EMERGENCY LIGHTING CENTRAL TEST UNIT
	RECESSED OPEN AREA EMERGENCY
	RECESSED ESCAPE ROUTE EMERGENCY
	RECESSED POINT OF EMPHASIS EMERGENCY
	SURFACE MOUNTED OPEN AREA EMERGENCY
	SURFACE MOUNTED ESCAPE ROUTE EMERGENCY
	SURFACE MOUNTED BULKHEAD EMERGENCY
	LUMINAIRE ON SAME SWITCHED CIRCUIT
	LUMINAIRE ON SAME CIRCUIT BUT SWITCHED SEPARATELY

GENERAL NOTES:

ALL CONDUITS & ACCESSORIES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE STATED SUCH AS IN SNU AREAS.

ALL LIGHT SWITCHES TO BE MOUNTED 1100MM TO TOP OF SWITCH FROM FFL IN ACCORDANCE WITH DDA REGULATIONS.

FOR CLARITY, INTERCONNECTING CABLES TO EMERGENCY LIGHT FITTINGS HAVE NOT BEEN INDICATED. THE WIRING OF ALL EMERGENCY LIGHTING SHALL BE IN ACCORDANCE WITH IS3217:2023.

EMERGENCY LIGHTING SHALL BE TESTED VIA CENTRAL TEST UNITS LOCATED ADJACENT TO EACH LIGHTING DISTRIBUTION BOARD. EACH TEST FACILITY SHALL INCORPORATE TIMED SETTINGS IN COMPLIANCE WITH IS3217:2013.

EMERGENCY LIGHTING SHALL BE IN ACCORDANCE WITH IS3217:2023. THIS INCLUDES EMERGENCY LIGHTING IN CLASSROOMS.

OPERATION OF ALL LIGHTING IN CLASSROOMS SHALL BE BY MEANS OF MANUAL PUSH-TO-MAKE SWITCH TO ACTIVATE THE SENSOR WHICH IN TURN WILL CONTROL THE LIGHTING. 2-WAY SWITCHING SHALL BE PROVIDED FOR THE TEACHER ROW OF LIGHTS IN ACCORDANCE WITH TGD-031 DOCUMENT.

ALL SENSORS SHALL COMPLY WITH TGD-031 IN TERMS OF PHOTOCELL, DAYLIGHT AND ABSENCE CONTROL FEATURES.

A ROOM BY ROOM COMMISSIONING CERTIFICATE SHALL BE PROVIDED CONFIRMING THE INDIVIDUAL PARAMETERS SET UP OF EACH SENSOR. THIS SHALL FORM PART OF THE O&M MANUALS

SENSORS IN WC'S SHALL CONTROL LIGHTING & EXTRACT FANS WHERE INSTALLED.

ONLY THE SITE LIGHTING LUMINAIRES AT HIGH-LEVEL ON THE FACADE OF THE BUILDING SHALL ILLUMINATE WHEN THE INTRUDER ALARM IS ACTIVATED.

THE CONTROLS FOR EXTERNAL FACADE LIGHTING AND CAR PARK LIGHTING SHALL COMPRISE A 4-CHANNEL DIGITAL TIMECLOCK AND HAND-OFF-AUTO SWITCHES, WITH THE SWITCHES AND TIMECLOCK LOCATED IN THE ADMIN OFFICE.

INTERNAL LIGHTING CIRCUITS & EXTERIOR FACADE MOUNTED LIGHTING SHALL BE WIRED USING 2.5mm sq. 13F STRANDED GALVANIZED STEEL CONDUIT / TRUNKING FROM 10 AMP MCB ON LOCAL DISTRIBUTION BOARD (SITE LIGHTING DIST BOARD FOR FACADE LIGHTING).

EXTERIOR POLE MOUNTED (CARPARK & DROP-OFF) LIGHTING CIRCUITS SHALL BE WIRED USING 6.0mm sq. ALPES/SWALSF STRANDED CABLES WITH CPC ENCLOSED WITHIN UPVC DUCTING EXTERNALLY AND ON WIRE BASKET WITHIN THE BUILDING CONTROLLED FROM 10 AMP MCBs ON SITE LIGHTING DISTRIBUTION BOARD.

SCHEDULE OF LIGHTING CONTROLS / SENSORS

REF 'S1': CEILING RECESSED PROGRAMMABLE MICROWAVE DETECTOR c/w 360-DEGREE ABSENCE DETECTION PATTERN PROVIDING 7MB COVERAGE AT 2.8M. ADJUSTABLE OFF DELAY FROM 5-60 MINS. DUAL-SENSITIVITY DEVICE TO REDUCE NUISANCE SWITCHING. TO DIM ALL CLASSROOM LIGHTS COLLECTIVELY TO OFF WHEN 300-LUX HAS BEEN ACHIEVED OR AFTER 12-MINUTE INACTIVITY. TO OPERATE IN CONJUNCTION WITH MANUAL SWITCHES WHEREBY SWITCH MUST BE PRESSED 'ON' FOR AUTOMATIC CONTROL. TO ACTIVATE. INCORPORATES HOLD-OFF PHOTOCELL, DAYLIGHT & ABSENCE CONTROL.

REF 'S2': CEILING RECESSED INFRARED PIR DETECTOR c/w 360-DEGREE MOVEMENT DETECTION PATTERN PROVIDING 6M0 COVERAGE AT 2.8M. ADJUSTABLE OFF DELAY FROM 5-35 MINS. HOLD-OFF PHOTOCELL WITH VARIABLE SENSITIVITY RANGE 20-20K LUX. TO DIM LIGHTING TO OFF WHEN 120-LUX HAS BEEN ACHIEVED OR AFTER 12-MINUTE INACTIVITY. USED IN TOILETS AREAS WITH NO OR LOW DAYLIGHT PENETRATION. INCORPORATES ABSENCE CONTROL.

REF 'S3': CEILING RECESSED INFRARED PIR DETECTOR c/w 360-DEGREE MOVEMENT DETECTION PATTERN PROVIDING 6M0 COVERAGE AT 2.8M. ADJUSTABLE OFF DELAY FROM 5-35 MINS. HOLD-OFF PHOTOCELL WITH VARIABLE SENSITIVITY RANGE 20-20K LUX. TO SWITCH OFF LIGHTING WHEN 120-LUX HAS BEEN ACHIEVED OR AFTER 12-MINUTE INACTIVITY. TO OPERATE IN CONJUNCTION WITH MANUAL SWITCHES WHEREBY SWITCH MUST BE PRESSED 'ON' FOR AUTOMATIC CONTROL. TO ACTIVATE. FOR USE IN TOILET & SMALL ANCILLARY AREAS WITH SIGNIFICANT DAYLIGHT PENETRATION. INCORPORATES HOLD-OFF PHOTOCELL & ABSENCE CONTROL.

REF 'S4': CEILING RECESSED PROGRAMMABLE MICROWAVE DETECTOR WITH MAX 20x20M RANGE FOR USE IN CORRIDORS AND STAIRWELLS. ADJUSTABLE OFF DELAY FROM 5-60 MINS. DUAL-SENSITIVITY DEVICE TO REDUCE NUISANCE SWITCHING. TO DIM CORRIDOR LIGHTS TO OFF WHEN 120-LUX HAS BEEN ACHIEVED OR AFTER 12-MINUTE INACTIVITY. TO OPERATE IN CONJUNCTION WITH 2-WAY SWITCHES T. INCORPORATES HOLD-OFF PHOTOCELL, DAYLIGHT & ABSENCE CONTROL.

REF 'S5': SURFACE MOUNTED LONG-RANGE MICROWAVE DETECTOR WITH MOUNTING BOX 30x60M RANGE. ADJUSTABLE OFF-DELAY OF 0-15 MINS. FOR USE IN SPORTSHALL IN CONJUNCTION WITH MANUAL SWITCHES AND REGULATING PHOTOCELLS. OVERALL ARRANGEMENT INCORPORATES HOLD-OFF PHOTOCELL, DAYLIGHT & ABSENCE CONTROL.

T01 TENDER STAGE

REV DESCRIPTION

ISSUE

DS CMA JULY 25

DRN CKD DATE

TENDER

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PROJECT TITLE

DIFE MULTI TERTIARY BUILDING EXTENSION

DRAWING TITLE

LIGHTING LEVEL 1

DRAWING REFERENCE

2999-SMK-ZZ-01-DR-E-6302

DRN DS

SCALE A0 1:100