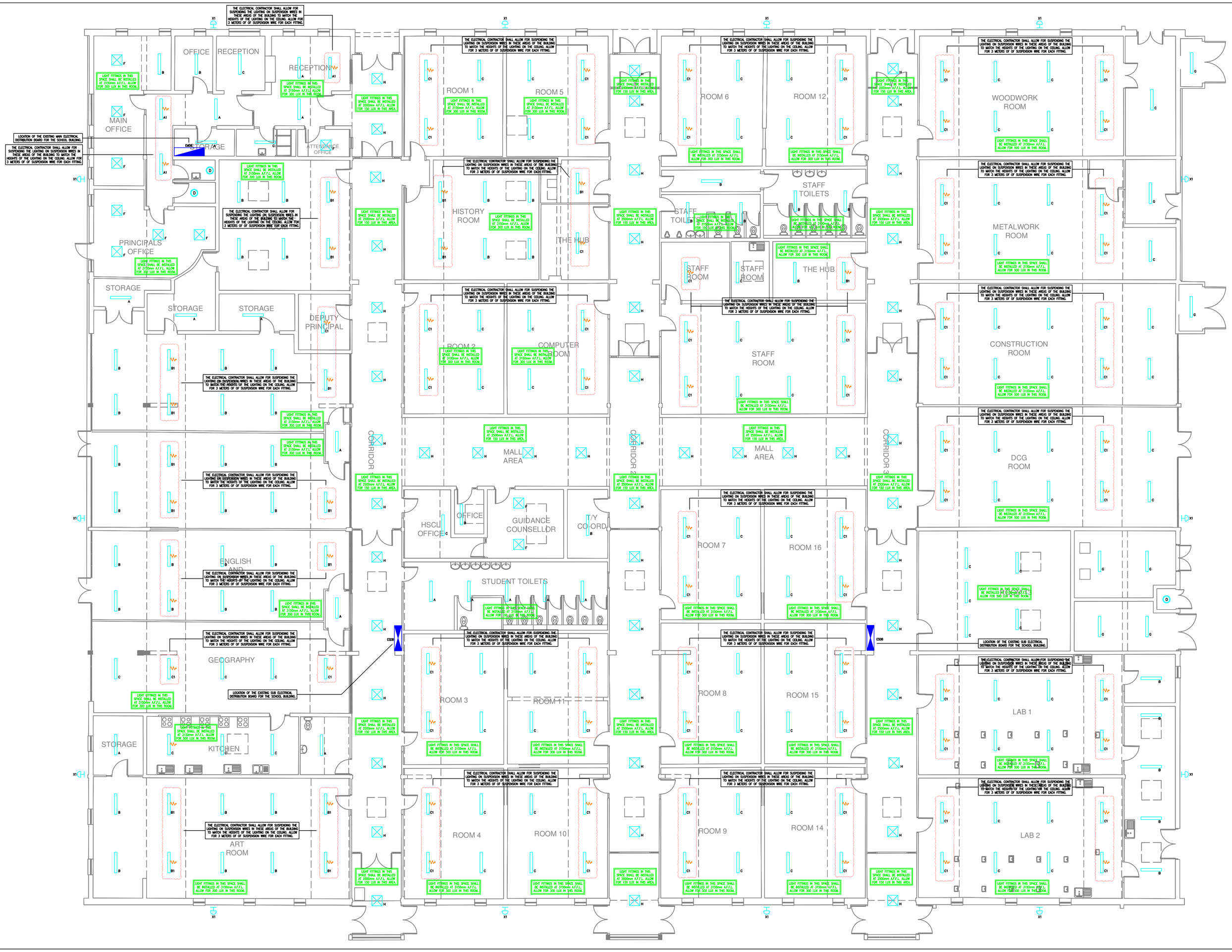
A1



NEW GENERAL LIGHTING REPLACEMENT LAYOUT FOR THE BUILDING

LIGHTING SYMBOLS

EMDB — EXISTING MAIN-DISTRIBUTION ELECTRICAL BOARD FOR THE SCHOOL BUILDING. THIS EXISTING ELECTRICAL BOARD SHALL BE RETAINED.

ESDB — EXISTING SUB-DISTRIBUTION ELECTRICAL BOARD FOR THE SCHOOL BUILDING. THIS EXISTING ELECTRICAL BOARD SHALL BE RETAINED.

A — NEW 23W LED LUMINAIRE. LIGHT FITTING SHALL BE INSTALLED IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

A1 — THE NEW LED LIGHT FITTING IS THE SAME LIGHT FITTING FOR 'TYPE B' LIGHT FITTING ABOVE WHICH IS A NEW 23watt LED LIGHT FITTING. THE LIGHT FITTING SHALL BE SUPPLIED AND INSTALLED IN LIEU OF THE EXISTING FLOURESCENT LIGHT FITTING. WIRING AND SWITCHED ARRANGEMENT FOR THE EXISTING LIGHT FITTING SHALL BE RETAINED AND THE CONTRACTOR SHALL ALLOW FOR CONNECTING THE EXISTING WIRING THAT WAS IN PLACE FOR THE EXISTING LIGHT FITTING TO THE NEW LED LIGHT FITTING.

B — NEW 32W LED LUMINAIRE. LIGHT FITTING SHALL BE INSTALLED IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

B1 — THE NEW LED LIGHT FITTING IS THE SAME LIGHT FITTING FOR 'TYPE B' LIGHT FITTING ABOVE WHICH IS A NEW 32watt LED LIGHT FITTING. THE LIGHT FITTING SHALL BE SUPPLIED AND INSTALLED IN LIEU OF THE EXISTING FLOURESCENT LIGHT FITTING. WIRING AND SWITCHED ARRANGEMENT FOR THE EXISTING LIGHT FITTING SHALL BE RETAINED AND THE CONTRACTOR SHALL ALLOW FOR CONNECTING THE EXISTING WIRING THAT WAS IN PLACE FOR THE EXISTING LIGHT FITTING TO THE NEW LED LIGHT FITTING.

C — NEW 47W LED LUMINAIRE. LIGHT FITTING SHALL BE INSTALLED IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

C1 — THE NEW LED LIGHT FITTING IS THE SAME LIGHT FITTING FOR 'TYPE B' LIGHT FITTING ABOVE WHICH IS A NEW 47watt LED LIGHT FITTING. THE LIGHT FITTING SHALL BE SUPPLIED AND INSTALLED IN LIEU OF THE EXISTING FLOURESCENT LIGHT FITTING. WIRING AND SWITCHED ARRANGEMENT FOR THE EXISTING LIGHT FITTING SHALL BE RETAINED AND THE CONTRACTOR SHALL ALLOW FOR CONNECTING THE EXISTING WIRING THAT WAS IN PLACE FOR THE EXISTING LIGHT FITTING TO THE NEW LED LIGHT FITTING.

THIS INDICATES THE LIGHTING FITTINGS THAT ARE TO BE SUSPENDED FROM THE CEILING.

D / D1 — NEW 12W LED WALL OR CEILING MOUNTED LED LIGHT FITTING. SEE SPECIFICATION FOR FURTHER DETAILS.

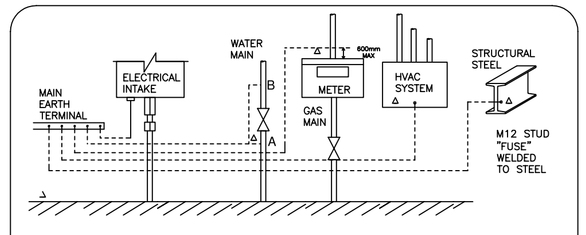
AS PER LIGHT FITTING SPECIFIED FOR 'TYPE D' ABOVE BUT THIS LIGHT FITTING SHALL HAVE AN INTEGRATED PIR SENSOR FOR LIGHTING CONTROL. SEE SPECIFICATION FOR FURTHER DETAILS.

F — NEW 35W RECESSED LED LUMINAIRE. LIGHT FITTING SHALL BE RECESSED INTO THE CEILING IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

G — NEW 20W IP65 LED LUMINAIRE. LIGHT FITTING SHALL BE INSTALLED IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

H — NEW 30W RECESSED LED LUMINAIRE. LIGHT FITTING SHALL BE RECESSED INTO THE CEILING IN REPLACEMENT OF THE EXISTING FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE FOR THE ORIGINAL LIGHT FITTING.

X1 — NEW EXTERNAL LED LUMINAIRE. LIGHT FITTING SHALL BE INSTALLED IN REPLACEMENT OF THE EXISTING LIGHT FITTING AND SHALL CONNECT TO THE EXISTING WIRING IN PLACE OF THE ORIGINAL LIGHT FITTING.



1. WATER MAIN BONDED AT "B" F SECTION "A" IS PVC PIPE.
2. MINIMUM SIZE OF BONDING CONDUCTORS 25mm2 GREEN/YELLOW LSF CU. CABLE.
3. WARNING NOTICES REQUIERD AT ALL CONNECTIONS SHOWN THUS
4. EXPOSED CONDUCTIVE PARTS TO BE BONDED TO EARTH.
4.1. CIRCUIT PROTECTIVE CONDUCTORS
4.2. OUTER METALIC SHEATH OF CABLES
4.3. CONDUIT, DUCTS & TRUNKING
4.4. SUPPLEMENTARY BONDING CONDUCTORS MINIMUM SIZE 4mm2 NOT MECHANICALLY PROTECTED, 10mm2 RECOMMENDED INAPLANT AREAS.

MAIN EQUIPOTENTIAL BONDING CONNECTION

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR SPECIFICATIONS.

2. THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL SERVICES AND WORKS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK.

3. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.

4. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE. ALL DIMENSIONS IN mm, UNLESS STATED OTHERWISE

5. EXACT LOCATIONS OF ALL SERVICES TO BE AGREED ON SITE. FINAL LOCATIONS OF ALL SERVICES TO BE CO-ORDINATED ON SITE WITH EXISTING LOOSE AND FIXED FURNITURE LAYOUTS IN THE ROOM.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORKS AND BUILDERS WORKS AS IDENTIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

7. THE MAJORITY OF THE EXISTING ELECTRICAL INSTALLATION THROUGHOUT THE MAIN BUILDING SHALL BE DECOMMISSIONED AND REMOVED AND REPLACED WITH NEW ELECTRICAL INSTALLATIONS. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING THE FOLLOWING ITEMS THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS:

- THE EXISTING GENERAL LIGHTING SERVICES INSTALLATION THROUGHOUT THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL LIGHT FITTINGS. THE EXISTING WIRING FOR THE BUILDING SHALL BE RETAINED AND CONNECTED TO THE NEW LIGHTING.
- REFER TO THE DRAWINGS AND SPECIFICATIONS FOR ALL DECOMMISSIONING WORKS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR ALL CONTAINMENT AND TRAY THROUGHOUT THE BUILDING FOR THE NEW ELECTRICAL SERVICES AND CABLING. NEW MAIN RUNS OF ELECTRICAL TRUNKING/TRAY SHALL BE INSTALLED IN THE AREAS AS INDICATED ON THE DRAWINGS BUT THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR ELECTRICAL CONTAINMENT ON SITE THEN THAT WILL BE ACCEPTABLE.

ELECTRICAL SERVICES NOTES:

10. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING AND REMOVING FROM SITE ALL OF THE EXISTING GENERAL LIGHT FITTINGS THROUGHOUT THE BUILDING AS PART OF THE WORKS. ALL OF THE EXISTING LIGHT FITTINGS SHALL BE REPLACED THROUGHOUT THE BUILDING.

11. THE CONTRACTOR WILL ALLOW FOR RETAINING ALL OF THE EXISTING CABLING, SWITCHING ETC FOR THE GENERAL LIGHTING THROUGHOUT THE BUILDING. ALLOW FOR RECONNECTING THE EXISTING WIRING IN THE BUILDING TO THE NEW LED LIGHT FITTINGS THROUGHOUT THE BUILDING.

12. THE CONTRACTOR SHALL ALLOW FOR EXTENDING THE EXISTING CABLING FOR THE LIGHTING TO BE SUSPENDED THROUGHOUT THE BUILDING THE BUILDING TO ENSURE THE LIGHTING SHALL BE UNIFORM THROUGHOUT EACH ROOM IN THE BUILDING. ALLOW FOR 3 METERS OF SUSPENSION CABLE FOR EACH OF THE LIGHT FITTINGS.

13. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING AND REMOVING FROM SITE ALL OF THE EXISTING EXTERNAL LIGHT FITTINGS INSTALLED AROUND THE PERIMETER OF THE BUILDING. THESE LIGHT FITTINGS WILL BE REPLACED WITH NEW LIGHT FITTING SUITABLE FOR INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE NEW LIGHT FITTINGS ARE SUITABLE TO INSTALL ON THE BUILDING PRIOR TO ORDERING THE LIGHT FITTINGS.

14. THE CONTRACTOR SHALL MEASURE THE QPE OF THE EXISTING RECESSED CIRCULAR LIGHTING ALONG THE CORRIDORS OF THE BUILDING TO ENSURE THAT THE NEW LIGHT FITTINGS MATCH THE SIZE OF THE NEW LIGHT FITTINGS.

15. AS PART OF THE WORKS TO BE CARRIED OUT ON-SITE, THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF 30no. POWER SUPPLIES TO THE NEW ELECTRICAL OPERATED ROOFLIGHTS WITH ELECTRICAL BLINDS. EXACT LOCATION OF THE ROOFLIGHTS TO BE DISCUSSED ON-SITE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

15. AS PART OF THE WORKS TO BE CARRIED OUT ON-SITE, THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF 30no. POWER SUPPLIES TO THE NEW CLEARSTOREY GLAZING WITH ELECTRICAL BLINDS. EXACT LOCATION OF THE CLEARSTOREY GLAZING TO BE DISCUSSED ON-SITE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

16. THERE SHALL BE CABLE CONTAINMENT INSTALLED ON THE ROOF OF THE BUILDING ONCE THE NEW ROOF HAS BEEN INSTALLED TO CATER FOR THE EXISTING CABLING RUNNING ALONG THE ROOF OF THE BUILDING. EXACT LOCATION OF THE CONTAINMENT ON THE ROOF OF THE BUILDING TO BE DISCUSSED ON-SITE. FOR TENDERING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL INCLUDE FOR THE FOLLOWING:

- 50 METERS OF 100mm x 100mm TRUNKING
- 50 METERS OF 100mm TRAY
- 200 METERS OF 25mm CONDUIT

17. THE ELECTRICAL CONTRACTOR SHALL ORGANISE FOR A SUITABLE CONTRACTOR TO COME TO SITE TO RELOCATE THE EXISTING SATELLITE DISH AND ASSOCIATED BALLAST SYSTEM ON THE ROOF OF THE BUILDING. THE EXACT LOCATION OF THE RELOCATED SERVICES SHALL BE DETERMINED BY THE SUITABLE CONTRACTOR.

18. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR DISCONNECTING ALL OF THE EXISTING PIR SENSORS THROUGHOUT THE EXISTING CEILING THROUGHOUT THE BUILDING IN ORDER FOR THE WORKS TO BE CARRIED OUT. THIS SHALL INCLUDE REMOVAL OF THE EXISTING SENSORS, STORING ON A SAFE PLACE WHILE THE WORKS ARE BEING CARRIED OUT AND SHALL BE REINSTATED IN THE SAME LOCATION ONCE THE WORKS HAVE BEEN CARRIED OUT. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

18. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR DISCONNECTING ALL OF THE EXISTING FIRE ALARM DEVICES THROUGHOUT THE EXISTING CEILING THROUGHOUT THE BUILDING IN ORDER FOR THE WORKS TO BE CARRIED OUT. THIS SHALL INCLUDE REMOVAL OF THE EXISTING DETECTORS AND OTHER DEVICES, STORING ON A SAFE PLACE WHILE THE WORKS ARE BEING CARRIED OUT AND SHALL BE REINSTATED IN THE SAME LOCATION ONCE THE WORKS HAVE BEEN CARRIED OUT. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

19. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR DISCONNECTING ALL OF THE EXISTING INTRUDER ALARM DEVICES THROUGHOUT THE EXISTING CEILING THROUGHOUT THE BUILDING IN ORDER FOR THE WORKS TO BE CARRIED OUT. THIS SHALL INCLUDE REMOVAL OF THE EXISTING DETECTORS AND OTHER DEVICES, STORING ON A SAFE PLACE WHILE THE WORKS ARE BEING CARRIED OUT AND SHALL BE REINSTATED IN THE SAME LOCATION ONCE THE WORKS HAVE BEEN CARRIED OUT. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

20. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR DISCONNECTING AND REMOVING ALL OF THE EXISTING PROJECTS INSTALLED THROUGHOUT THE EXISTING CEILINGS IN THE BUILDING. THIS SHALL INCLUDE FOR REMOVAL OF THE PROJECTOR, STORING ON A SAFE PLACE WHILE THE WORKS ARE BEING CARRIED OUT AND SHALL BE REINSTATED IN THE SAME LOCATION ONCE THE WORKS HAVE BEEN CARRIED OUT. ALL DRACKET SYSTEMS ASSOCIATED WITH THE PROJECTORS SHALL ALSO BE REMOVED AND STORED IN A SAFE PLACE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS ON THIS ITEM.

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
T1	11.05.26	J. O'SULLIVAN	G. BENNDORF

M&E CONSULTANT

Galileo ENERGY SERVICES

UNIT A6, M4 BUSINESS PARK,
MAYNOOTH ROAD,
CELBRIDGE,
CO. KILDARE.
Tel: 01-6274103
www.galileoenergy.ie

Copyright©

Drawing Status: TENDER

Job Title: ST. KEVIN'S COLLEGE
BALLYGALL ROAD EAST,
FINGLAS,
DUBLIN 11.

Drawing Title: NEW GENERAL LIGHTING REPLACEMENT FOR THE BUILDING.

Architect:

Scale:	Drawn By:	
1:125 on A1	JOHNNY O'SULLIVAN	
Job No.	Drawing No.	Rev.
26-043	61(E001)	T1