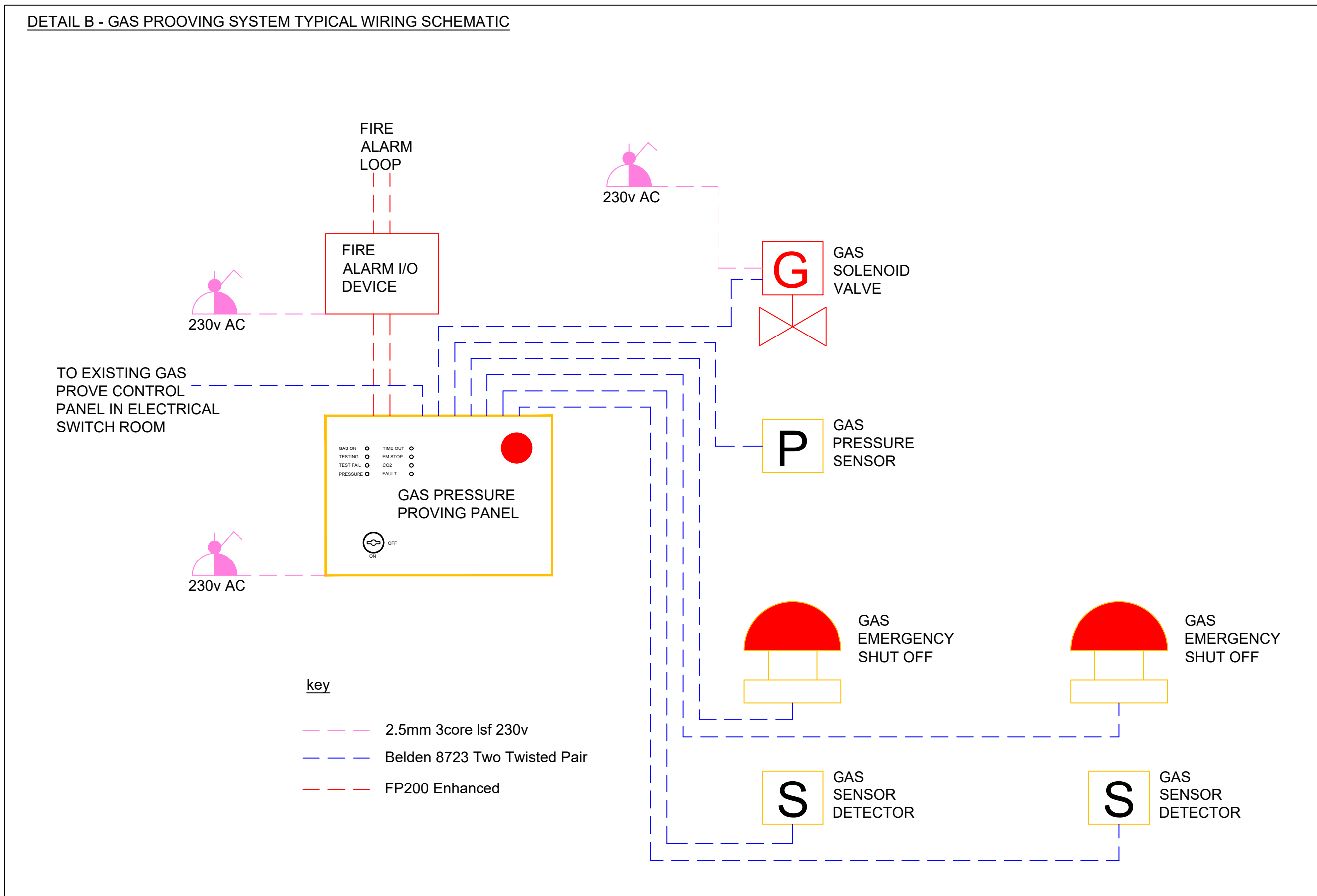
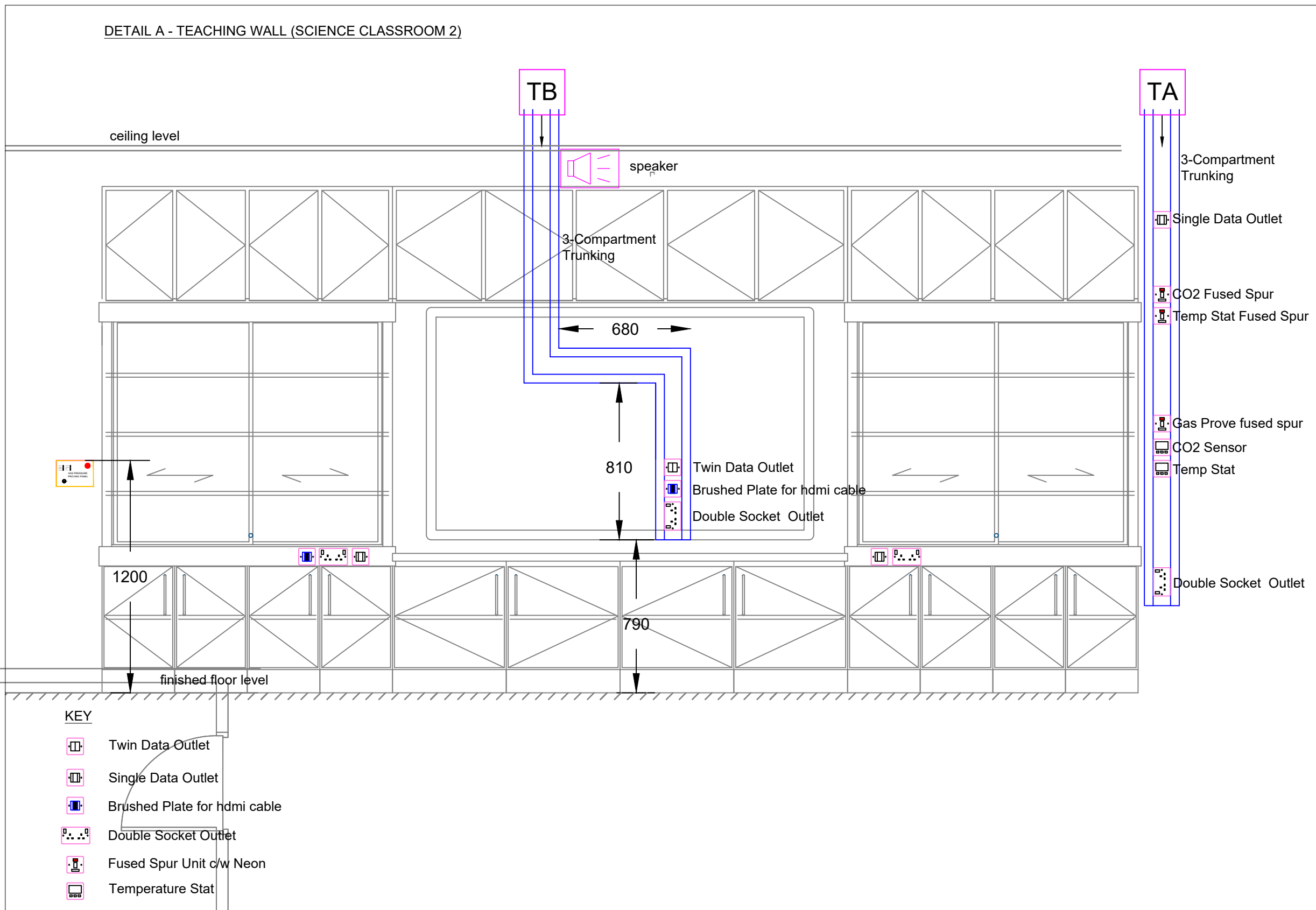
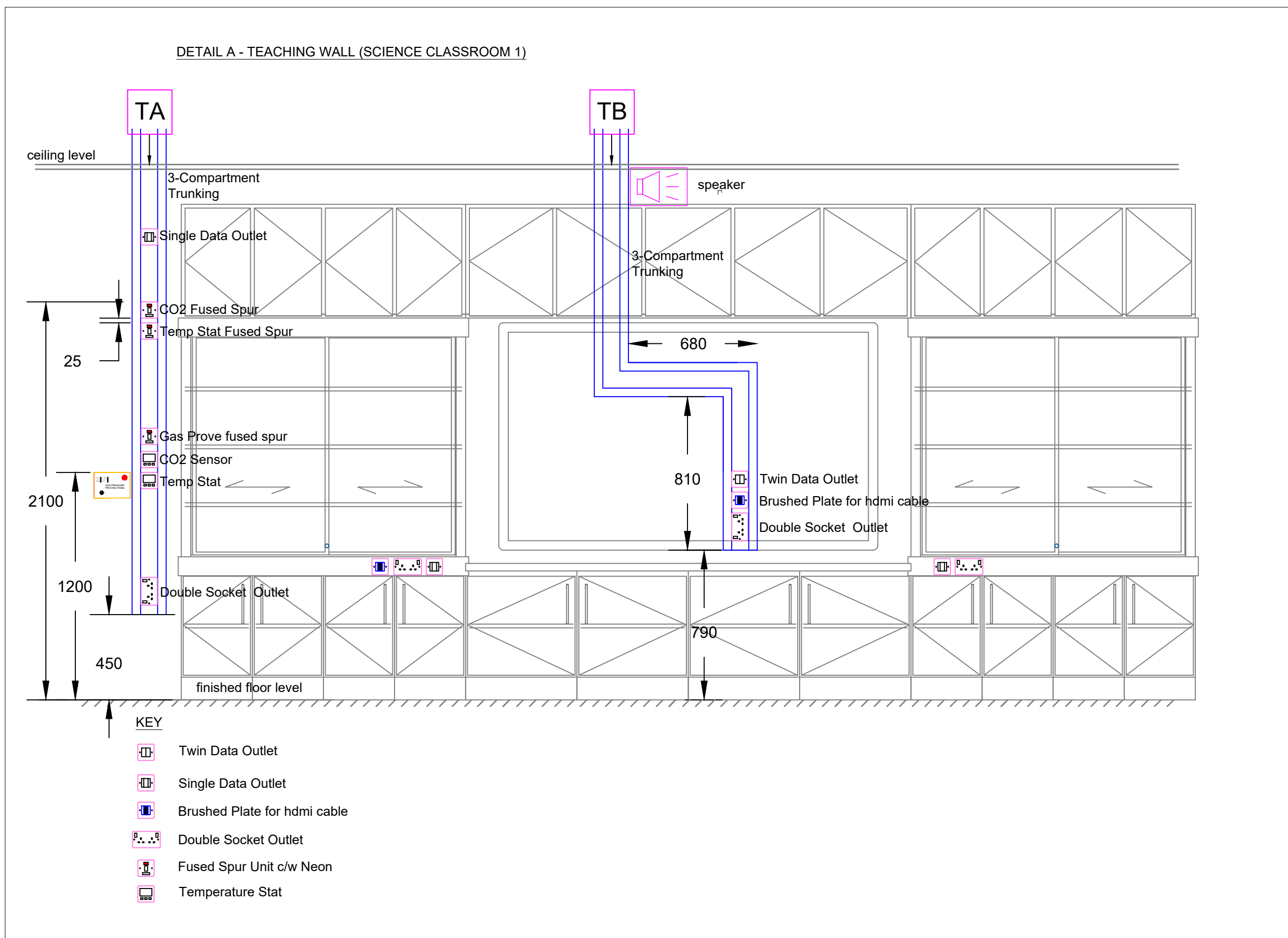
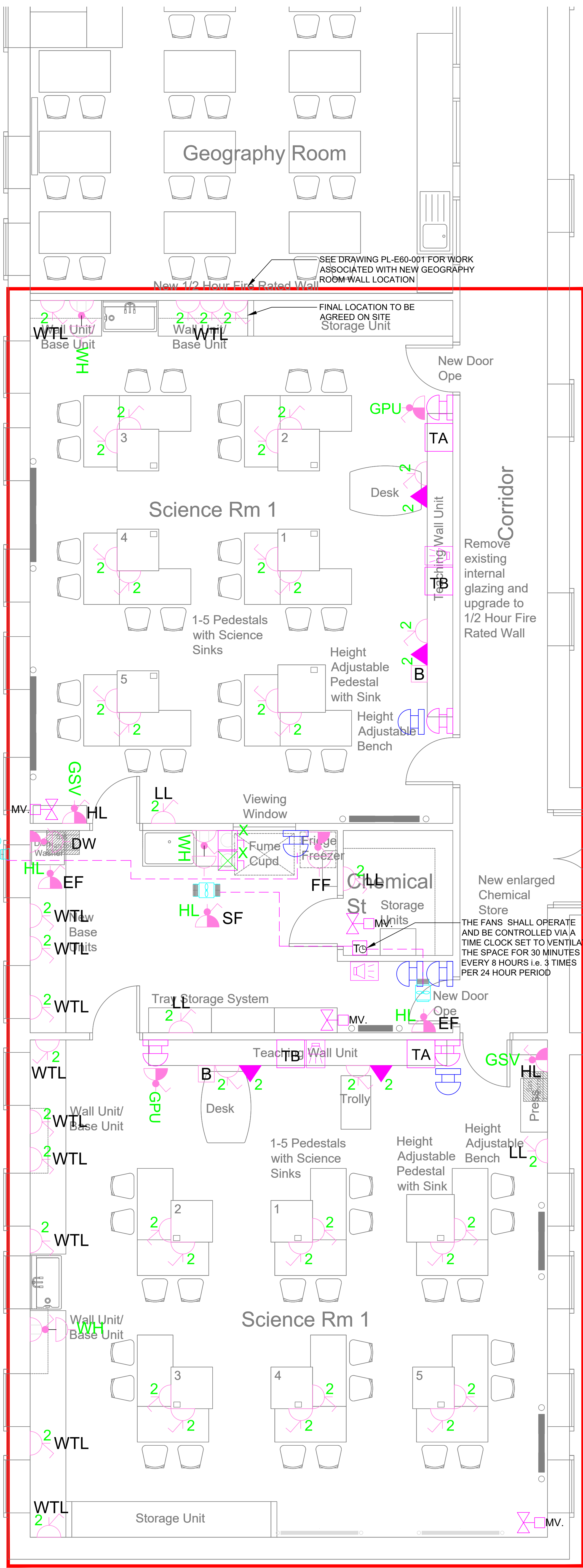




- NOTES
- THE POWER & DATA INSTALLATION SHALL COMPLY IN FULL WITH THE REQUIREMENTS OF NSAI I.S. 10101:2020+A1 2024 NATIONAL RULES FOR ELECTRICAL INSTALLATIONS EDITION 5.0.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTAINMENT, CONDUIT DROPS, BACK BOXES AND POWER SUPPLIES TO ALL ITEMS OF EQUIPMENT AS INDICATED ON ALL DRAWINGS. POSITIONS AND MOUNTING HEIGHTS OF ALL ITEMS SHOWN ARE INDICATIVE ONLY FOR PURPOSES OF TENDER. FINAL LOCATION OF ALL EQUIPMENT WILL HAVE TO BE AGREED WITH CLIENT/ARCHITECT PRIOR TO COMMENCEMENT OF FIRST FIX.
 - ALL WALL MOUNTED ACCESSORIES SHALL BE METAL CLAD TYPE. DOUBLE SOCKETS SHALL ALL HAVE THE SWITCH ROCKERS ON THE OUTSIDE. ACCESSORIES FITTED ONTO TO DESK FURNITURE SHALL BE FLUSH MOUNTED
 - ALL CABLES EXTENDING ACCESSORIES ON THE ISLAND DESKS SHALL BE EXTENDED IN 25mm GALVANISED STEEL CONDUIT WITHIN THE FLOOR AND SHALL EXTEND WITHIN THE DESK FURNITURE WITHIN FLEXIBLE STEEL CONDUIT.
 - ALL GENERAL POWER AND LIGHTING CIRCUITS SHALL EXTEND IN GALVANISED STEEL CONDUIT
 - ELECTRICAL CONTRACTOR TO USE FIRE RATED BACK BOXES AND INTUMESCENT PADS INCORPORATED INTO BACK OF OUTLET BOXES WHERE REQUIRED, IN COMPLIANCE WITH ISEN 1364-1 2015.
 - THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR FINAL CONNECTIONS TO ALL FIXED ELECTRICAL EQUIPMENT WITHIN THE PREP ROOM INCLUDING COOKERS, WASHING MACHINES, DISHWASHER, FRIDGE AND FREEZERS.
 - ALL RADIAL CIRCUITS TO SOCKET OUTLETS WITH DUAL EARTH TERMINALS SHALL HAVE AN ADDITIONAL SEPARATE EARTH CABLE TO BE USED AS THE 'HIGH INTEGRITY EARTH'.
 - ALL CABLES SHALL AS A MINIMUM MEET THE REQUIREMENTS OF CLASS D₀, S₂, d₂, a₂ OR HIGHER IN ACCORDANCE WITH IS EN 50575. IN ADDITION, CABLES SHALL BE TESTED IN ACCORDANCE WITH IS EN 61034-2 AND THE SMOKE GENERATED SHALL RESULT IN TRANSMITTANCE VALUES OF NOT LESS THAN 60%.
 - ALL SPUR UNITS AND ISOLATORS THROUGH-OUT THE BUILDING ARE TO BE LABELLED WITH FUNCTION AND CIRCUIT REFERENCE. FOR EXAMPLE: 'WATER HEATER SUPPLY GLP1/2L3' etc. LABELLING TO BE BY MEANS OF WHITE IVORINE LABEL WITH BLACK LETTERING, SCREW FIXED (NOT DYNO-TAPE).
 - THE DIST. BOARD SHALL BE MOUNTED AT A HEIGHT NOT GREATER THAN 2.15m, MEASURING FROM THE FLOOR TO THE HIGHEST PROTECTIVE DEVICE.
 - A STRUCTURED CABLING SYSTEM SPECIALIST SHALL BE EMPLOYED BY THE ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL, TEST, COMMISSION AND PROVIDE A 25-YEAR WARRANTY FOR CAT6A AND FIBRE OPTIC CABLES.
 - ALL EXISTING WIFI POINTS TO BE CAREFULLY LABELED, REMOVED & REINSTALLED IN EXISTING LOCATIONS
 - THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ALL POWER AND CONTROLS WIRING ASSOCIATED WITH THE GAS PROVING INSTALLATION. EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND FINAL LOCATION OF THE ASSOCIATED EQUIPMENT SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR AND AGREED ON SITE WITH THE DESIGN TEAM
 - ELECTRICAL CONTRACTOR SHALL ALLOW FOR EMERGENCY SHUT OFF SWITCH AND CONTACTOR INSTALLATION ARRANGEMENT TO DISCONNECT THE SOCKET OUTLETS WITHIN EACH SEPARATE CLASSROOM AND PREP ROOM
 - ELECTRICAL CONTRACTOR TO ALLOW FOR DEDICATED TIMECLOCK AND CONTACTOR ARRANGEMENT FOR EACH INDIVIDUAL WATER HEATER INSTALLATION
 - SOCKET OUTLETS AND SWITCHES MUST BE A MINIMUM OF 300mm FROM THE EDGE OF A SINK
 - SWITCHES FOR FRIDGE FREEZERS MUST BE LOCATED MINIMUM 150mm TO THE SIDE TO ALLOW FOR FULL HEIGHT FRIDGE FREEZER
 - THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR REWIRING POWER SUPPLIES FOR THE EXISTING AUTOMATIC WINDOWS INCLUDING FOR 2x Up/Down SWITCH CONTROLLERS TO CONTROL 6No. WINDOWS PER CLASSROOM
 - FINAL POSITIONS OF ALL ELECTRICAL ACCESSORIES FOR POWER AND CONTROLS MUST BE AGREED ON SITE WITH THE DESIGN TEAM PRIOR TO FIRST FIX.

- LEGEND
- NEW SCIENCE SUB DISTRIBUTION BOARD
 - TP&N 4-POLE LOCKABLE ROTARY ISOLATOR IP65 IK08 ('X' DENOTES AMP RATING)
 - SP&N 3-POLE LOCKABLE ROTARY ISOLATOR IP65 IK08 ('X' DENOTES AMP RATING)
 - 13A TWIN SWITCHED SOCKET OUTLET
 - 13A SINGLE SWITCHED SOCKET OUTLET
 - 20A DOUBLE POLE SWITCH + NEON
 - 13A UN-SWITCHED FUSED CONNECTION UNIT
 - 13A SWITCHED FUSED CONNECTION UNIT
 - 13A SWITCHED FUSED CONNECTION UNIT WITH NEON
 - 13A UN-SWITCHED FUSED CONNECTION UNIT WITH NEON
 - 13A DOUBLE UNSWITCHED SOCKET OUTLET
 - 13A SINGLE UNSWITCHED SOCKET OUTLET
 - TWIN DATA OUTLET c/w FACEPLATE
 - SINGLE DATA OUTLET c/w FACEPLATE
 - CEILING MOUNTED SINGLE DATA OUTLET FOR WIRELESS ACCESS POINT (BY OTHERS).
 - TEACHERS DESK TRUNKING REFER TO DETAIL A
 - TEACHERS DESK TRUNKING REFER TO DETAIL A
 - WALL MOUNTED PA SPEAKER WITH VOLUME CONTROL CONNECTED TO MAIN SCHOOL PA SYSTEM
 - GAS EMERGENCY SHUT OF BUTTON C/W KEY RELEASE
 - POWER EMERGENCY SHUT OF BUTTON C/W KEY RELEASE
 - BRUSHED PLATE FOR HDMI CABLE

- ABBREVIATIONS
- | | | | |
|------|--------------------------------|-----|------------------------------|
| ABD | - ACUSTIC BREAKGLASS DETECTOR | GSV | - GAS SOLENOID VALVE |
| AOV | - AUTOMATIC OPENING VENT | GPU | - GAS PROVING UNIT |
| AOVP | - AUTOMATIC OPENING VENT PANEL | HFF | - HANDS-FREE FLUSH |
| AW | - AUTOMATIC WINDOW | HFT | - HANDS-FREE TAP |
| DA | - DOOR ACCESS | IDP | - INTRUDER DETECTION PANEL |
| DAP | - DISABLED ALARM PANEL | IL | - INDUCTION LOOP |
| DCU | - DOOR CONTROL UNIT | NVR | - NETWORK VIDEO RECORDER |
| DH | - DOOR HOLD DEVICE | PA | - PUBLIC ADDRESS |
| DRP | - DISABLED REFUGE PANEL | RS | - ROLLER SHUTTER |
| DS | - DIGITAL SCREEN | SD | - SLIDING DOOR |
| DW | - DISH WASHER | UPS | - UNINTERRUPTED POWER SUPPLY |
| EL | - ELECTRIC RADIATOR | VM | - VENDING MACHINE |
| FAP | - FIRE ALARM PANEL | WH | - WATER HEATER |
| FR | - FRIDGE/FREEZER | WP | - WATER PROOF (IP44) |
| SF | - SUPPLY FAN | | |
- MOUNTING HEIGHTS
- LL - LOW LEVEL (450mm AFFL to bottom)
 - WTL - WORK TOP LEVEL (150mm Above worktop level to bottom)
 - ML - MEDIUM LEVEL (1200mm AFFL to Top)
 - HL - HIGH LEVEL (2100mm AFFL to Top)
 - CV - CEILING VOID

EXTRACT FAN SCHEDULE				
REF	DESCRIPTION	ELECT RICAL	FUSE RATING (HRC)	CONTROL
EF-01	ANTI CORROSIVE, SINGLE INLET, DIRECT DRIVE CENTRIFUGAL FAN	240V/1 Ø/50Hz	RC – 0.24A	VIA FUME CUPBOARD
EF-02	EXTRACT FAN	240V/1 Ø/50Hz	XX A	SCIENCE PREP CHEMICAL STORE - CONTROL VIA TIMECLOCK TO RUN 30Mins EVERY 8 HOURS
SF-01	SUPPLY FAN	240V/1 Ø/50Hz	XX A	SCIENCE PREP CHEMICAL STORE - CONTROL VIA TIMECLOCK TO RUN 30Mins EVERY 8 HOURS

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Rev.	Date	Description	Eng.	App.

Drawing number.
PL-E62-001

Client.
SCOIL MHUIRE BUNCRANA

Architect.
AL ARCHITECTS LTD
OFFICE 8B
THE COURTYARD
LOWER MAIN STREET
LETERKENNY
CO.DONEGAL

Project.
REFURBISHMENT OF SCIENCE ROOMS
SCOIL MHUIRE BUNCRANA
CO.DONEGAL

Service.
ELECTRICAL

Drawing Status.
TENDER

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Eng./CAD	LG	Checked.	MD
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Title.
**SCIENCE CLASSROOMS 1 & 2
SECOND FLOOR**

POWER & DATA LAYOUT

Scale(s).	1:50 @ A1	Date.	MAY.2026
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Project Number.	6447	Revision.	T0
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Drawing number.
PL-E62-001

Proposed Floor Plan