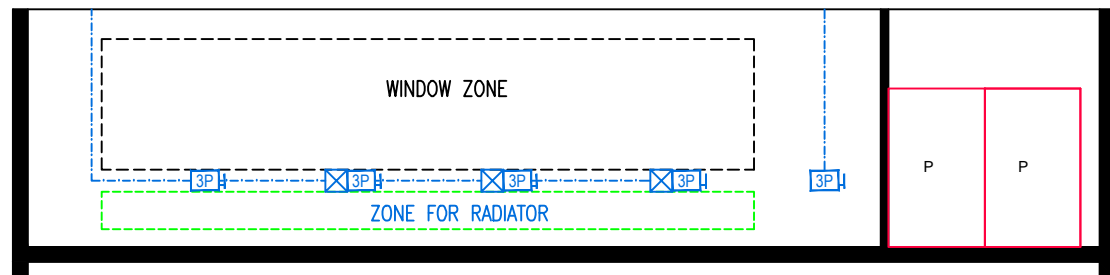
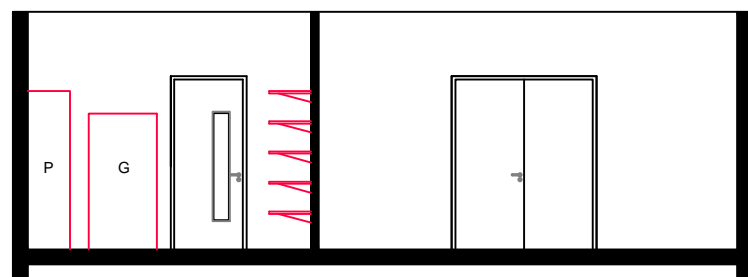


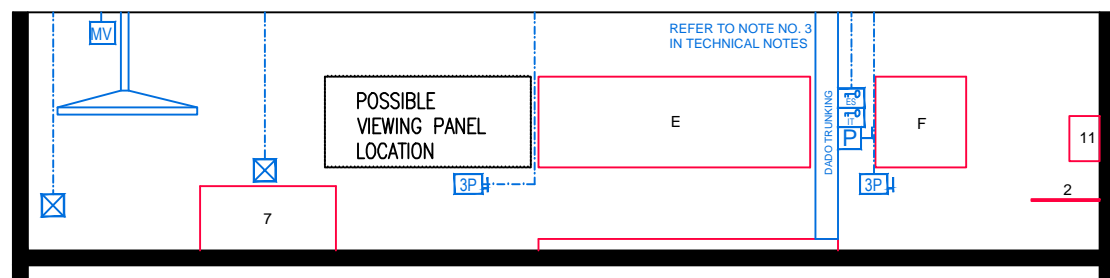
ELEVATION: A - A



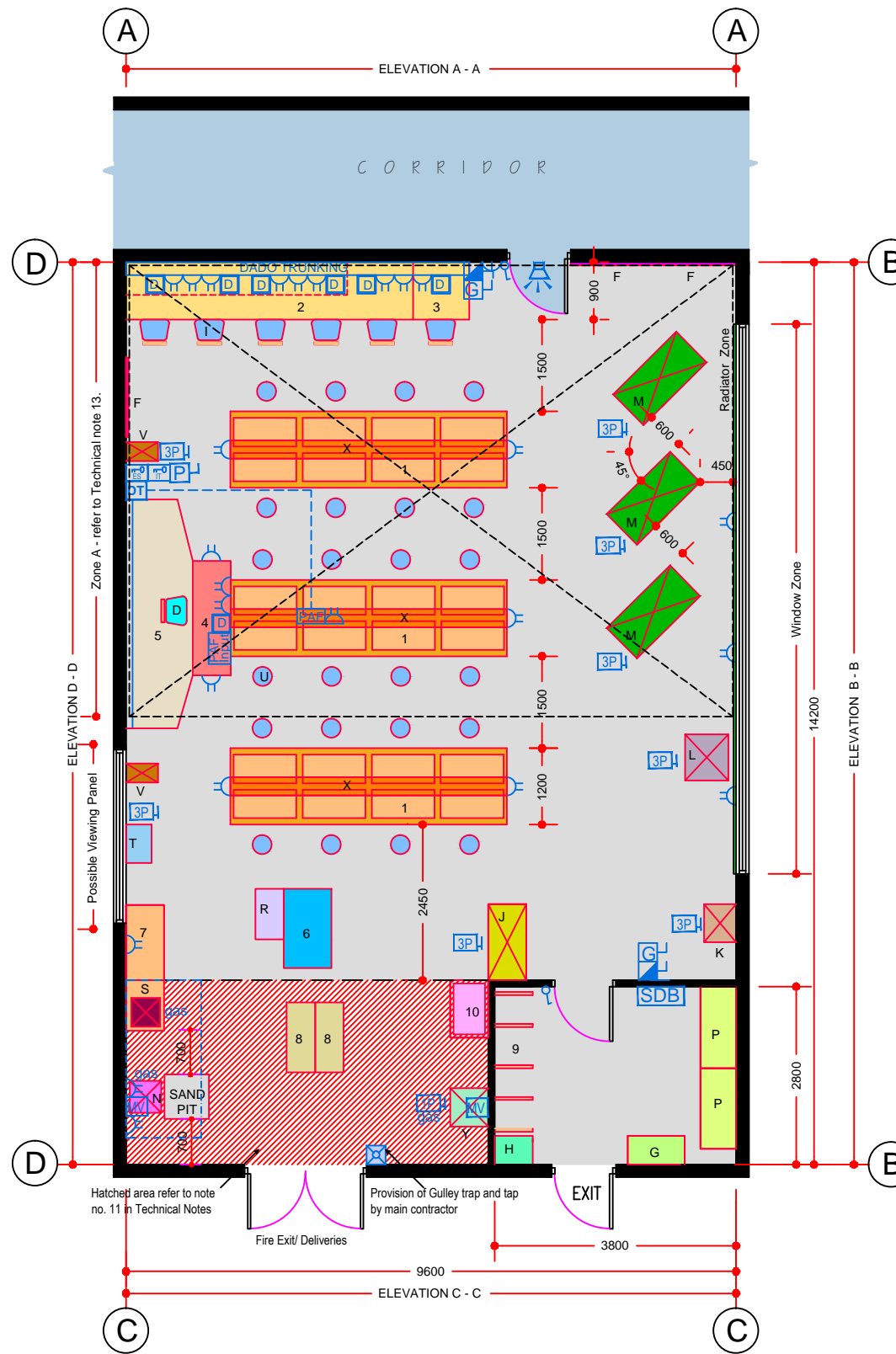
ELEVATION: B - B



ELEVATION: C - C



ELEVATION: D - D



FLOOR PLAN

GRANOLITHIC OR TERRAZZO FLOOR FINISH WITH WASH DOWN GULLEY WITH SILT TRAP

**TECHNICAL NOTES**

- This document provides guidance in relation to the requirements for a Engineering/ Metalwork Room & Store .
- This document should be read in conjunction with the Technical Guidance Documents (TDGs) as published by the Department of Education & Skills.
- Refer to Drawing Ref No. RT-ICT-A-100 'Data Projector Installation' for detailed requirements.
- Final position of network points and associated power outlets shall be above desk/worktop height.
- Dado trunking shall feed from above in ground floor situations and from ceiling void below if room is located on upper floors.
- In teaching spaces containing data projectors manual two way switching shall be provided on the row of lights nearest the teaching wall.
- The exact location of the Data Projector and associated twin outlet and Projector Audio Faceplate (PAF) to be agreed with the Client during design stage and included in the tender documents.
- Socket outlets, network points and PAF Input are to be located on teacher's bench and not in dado railing trunking as outlined in Drawing No. RT ICT-A-100
- Control heating to room using 2-port valve and lockable digital type electronic room thermostat.
- General floor to be 'Altro' or equal approved.
- ICT wiring to be run in conduit under the podium to feed the PAF on the teacher's bench etc.
- Granolithic or Terrazzo floor finish with wash down gully with silt trap.
- Natural light and ventilation required for the area marked in plan as "Zone A".

**FURNITURE & EQUIPMENT SCHEDULES**

FIXED FURNITURE		Quantity	Code
1	Student's workbench 4350x1200x800 high fixed to floor and fitted with 8 vices and with electrical socket outlets	03	MSB
2	Worktop 4500x900x710 min. high	---	CWT
3	Removable worktop 900x900x710 min. high	---	CWT
4	Teacher's desk 1800x600x900 high fixed to rostrum	01	MTD
5	Rostrum 4000x1700x150 high	01	R
6	Craft table (movable) 1250x750x850 high	01	CTM
7	Furnace / Soldering bench 1800x600x850 high	01	MFB
8	Welding bench (movable) 1100x450x850 high	02	---
9	Three tier wall brackets bolted to wall and spaced at 450 c/c	06	BIB
10	Belfast sink 900x460 H+C	01	BS
11	High level storage	04	HL6

LOOSE FURNITURE		Quantity	Code
D	Teacher's chair 525 high	01	S5H
E	Whiteboard 3600x1200 with sliding T-square	01	CTU/M
F	Pinboard 1200x1200	03	PB
G	Storage press 900x450x1800 high	01	SC1
H	Four drawer filing cabinet 600x450 approx.	01	FC1
I	Student computer chair height adjustable	06	SCC
P	Tool press 1200x560x2100 high	03	MW2
U	Stackable student's stool 600 high	24	S2H
W	Exercise storage lockers 950x500x700 high to fit under workbenches	24	MUB
X	Tool racks to fit on top of workbenches	06	LI

EQUIPMENT		Quantity	Code
J	Horizontal band saw, 3 phase or 1 phase (check with school)	01	ENGM/204
K	Grinding machine 600x500 apx. with 750mm clear space on either side	01	ENGM/205
L	Vertical Bandsaw 750x750 approx. 3 phase/1 phase (check with school)	01	ENGM/202
M	Centre Lathe 1400x675 approx. (3 phase supply)	03	ENGM/201
N	Welder	01	-
R	Shears (movable) 800x450 approx.	01	-
S	Furnace 450x450 approx. sits on soldering bench	01	-
T	Polishing machine 600x500 with 750mm space either side	01	ENGM/209
V	Drilling machines 500x300 approx. with 750mm clear space either side	02	ENGM/210
Y	Brazing hearth 700x400 approx. Single phase electrical supply	01	-

**BUILDING SERVICES LEGEND**

BUILDING SERVICES ENGINEERING SYMBOLS	Plan	Elevation
Light Switches	⊕	⊕
Single Switched Socket Outlets	⊕	⊕
Single Switched Socket Outlets (under worktop)	⊕	⊕
Cleaner's Socket Outlet (not controlled by isolator)	⊕	⊕
Twin Switched Socket Outlets	⊕	⊕
Water Boiler Point	⊕	⊕
Cooker or Built-in Oven Point	⊕	⊕
Data Projector Isolating Switch	⊕	⊕
Single Phase Power Supply	⊕	⊕
3 Phase Power Point	⊕	⊕
Mechanical Ventilation Power Point	⊕	⊕
Key Operated Isolating Switch on ICT Installation only	⊕	⊕
Key Operated Isolator/ knockout Button on Electrical Supply	⊕	⊕
Emergency Knockout Button on Electrical Supply	⊕	⊕
Gas Pressure Proving System Control Panel	⊕	⊕
Emergency Knockout Button on Gas Supply	⊕	⊕
PA Loudspeaker	⊕	⊕
Telephone Point	⊕	⊕
Network Point	⊕	⊕
Projector Audio Faceplate (PAF)	⊕	⊕
Sub-distribution Board (possible location)	⊕	⊕
Dado Rail Trunking	⊕	⊕
Dado Trunking (vertical drop/ rise)	⊕	⊕
Radiator	⊕	⊕

- GENERAL NOTES:**
- This drawing is for information and reference only, designers are responsible for co-ordination issues and compliance with Building Regulations.
  - Doors shall provide 850 mm clear opening width, except where indicated otherwise.
  - Do not scale the drawing. Use figured dimensions only. All dimensions given are in millimetres.
  - All room dimensions are "internal dimensions".
  - Area = net internal area of the room.
  - All elevations are internal room elevations.
  - Any discrepancies between this document and other documents shall be reported to the Department.

**POST-PRIMARY SCHOOL ROOM LAYOUTS:**

**ENGINEERING / METALWORK ROOM & STORE (136 m<sup>2</sup>)**

DRG NO:	ISSUE NO:	SCALE:	DATE:
RT - 022	02	1: 100 @ A3	Sept 2011

**AN ROINN OIDEACHAIS AGUS SCILEANNA THE DEPARTMENT OF EDUCATION AND SKILLS**

Planning and Building Unit

