

Description

- ◆ Construction of a standalone two classroom science block on the site of redundant storage containers to expand academy teaching facilities
- ◆ SDS have worked closely with the Academy over several years, which enabled good technical knowledge of the site ensuring we could provide a robust design package to suit the project needs
- ◆ Expansion of the current classroom provision to ensure a consistent standard of delivery in secondary education
- ◆ Responsible for the identification of any mechanical or electrical service that would be affected by the construction works, would require upgrade, or new provision, and communicating this back to the client through a feasibility study exercise
- ◆ Carried out detailed design following the feasibility exercise, produced developed design drawings, technical schedules, and specifications of work.



Benefits Delivered

- ◆ Sound technical knowledge of the existing site allowing robust design and cost certainty for the Academy
- ◆ Co-ordination of utility services infrastructure between client and providers, including arrangement of services installation on site
- ◆ Close co-ordination with specialist contractors to ensure services supplies installed where required
- ◆ Monitoring of on site works and production of regular compliance
- ◆ Consistent service and support of existing client.

*Expansion of Penrice Academy's
Science teaching facilities*

Involvement

Detailed design of the following mechanical and public health systems:

- ◆ Classroom hybrid ventilation system
- ◆ Local extract ventilation
- ◆ Comfort heating and cooling systems
- ◆ Chemically resistant above ground drainage
- ◆ Natural gas infrastructure
- ◆ Utility gas metering
- ◆ Internal natural gas systems and gas safety systems
- ◆ Boosted cold water
- ◆ Local hot water generation

Detailed design of the following electrical systems:

- ◆ Infrastructure feed from existing school
- ◆ Lighting and Emergency Lighting
- ◆ Small power
- ◆ Structured cabling
- ◆ Containment
- ◆ Security
- ◆ Fire alarm
- ◆ Audio/visual systems
- ◆ Emergency power isolation facilities
- ◆ Co-ordination between utility infrastructure providers and client
- ◆ Quality and technical accuracy inspections of contractors work on site
- ◆ Witnessing of systems commissioning to ensure compliance including verification of certification.

