

# BPG Builds a New Block for Belvedere Academy



## CASE STUDY

### SECTOR

Education

### CLIENT

Belvedere Academy

The Belvedere Academy is dedicated to fostering an environment perfect for learning. It recognises that the buildings and spaces that are home to educational institutions have a real impact on pupil satisfaction and achieving the greatest results.

The success that this prestigious school encourages for its 1130 pupils is demonstrated perfectly in the attainment grades that are consistently much higher than both local and national averages. It is no surprise that they continue to increase the size of their premises to meet the extraordinary demand that they attract.

## Be Brave. Be Bold. BPG & Belvedere

Building Projects Group were recently given the responsibility of carrying out the second phase of expansion and development at The Belvedere Academy in Liverpool. This was a challenging and ultimately satisfying project with a duration of 60 weeks from 2023 to 2024. The scope of work involved required the BPG team to rely on our tried and tested methods of constant communication and minimum disruption within high care environments to ensure all expectations were exceeded by the client.



## Understanding The Challenge

Building Projects Group has great knowledge and experience of working within a live school environment. It requires focus, flexibility and above all elevated levels of communication to meet the demands of an environment with thousands of pupils, teachers and associated staff in the vicinity of the works.

As the site was directly next to Princes Park in Sefton there had to be a coordinated effort between the local council and park authorities to ensure everything ran smoothly for the duration of the project. Site access was also at the back of the school via the park, so we knew that all of the Building Projects team and our subcontractors must comply with the least disruptive ways of working in the neatest and cleanest way.

Fortunately, we always assume responsibility for the conduct and performance of every person connected to our projects. From planning, through delivery, to completion and sign off, The Belvedere was happy that we fulfilled our role in the very best way possible.



## Scope of Works

Extensive ground preparation was required to lay the foundations for success on this project. This included:

- **Piling Mat & Sheet Piling Works** - this was vital to ensure that the building can withstand heavy loads of the new block.
- **Reducing the Dig** - Significant earthworks were needed to dig 4 metres below the existing ground level for foundations and substructure components.
- **Creating a 40,000 Litre Drainage Pumping Station** - to appropriately manage water and maintain flood prevention.
- **Creating a Water Resistant Ground Floor** - The concrete slab and retaining walls were created with Xypex waterproof concrete for improved durability and water resistance.
- **Creating a Lift Pit & First Floor Concrete Slab** - Structural components such as the lift pit and first-floor slab were installed to ensure accessibility and load-bearing capacity.
- **Installing Precast Internal Concrete Stairs** - Durable stairs were installed for safe and hardwearing movement within the new block.



The new facilities for the block could then be created in line with the architectural designs:

- **Build Six New Classrooms** - designed for a variety of learning styles with natural lighting provided through high-level glazing.
- **Create Two Accessible Toilets** - ensuring accessibility for all the student population is always key for modern school environments.
- **Install Shopfront Glazing** - a sleek, modern aesthetic to flood the interior spaces with natural light was achieved.
- **Install Shingle Cladding** - The use of shingle cladding gives the building a resilient and attractive exterior.
- **Install Bauder Green Roof System** - this includes integrated solar panels to help improve energy efficiency and sustainability.
- **Install Underfloor Heating** to boost the building's energy efficiency and sustainability.
- **Install Hellerup External Concrete stairs** - these are precast for quality and align perfectly with the overall design.
- **Create New Landscaping** - To provide a more sympathetic footprint for the building's surrounding environment.
- **Create New Tarmac works** - To ensure smooth and durable access routes.
- **BMS System (Building Management System)** - To integrate and control energy management for smarter and more sustainable use.
- **Innovare Preformed Timber Frame** - This was used on the first floor for rapid and precise assembly while maintaining structural integrity.
- **Create High-Level Glazing & Ground Floor Ribbon Windows** - Maximum natural light penetration reduces artificial lighting and contributes to energy efficiency.
- **High Quality Floor Finishes** - Installed to handle the daily wear and tear of school life.
- **Complete All Fireproofing Works** - All necessary fireproofing measures were integrated into the building's design to meet regulatory standards.
- **Install Fire Doors** - To ensure fire safety and compliance with regulations.
- **Mechanical and Electrical (M&E) Systems** - To ensure that the building is equipped with the appropriate lighting, heating and ventilation.
- **Install Glazed Stair Balustrades** - These provide an element of design sophistication while ensuring safety and clear visibility.
- **Install Cibe Lift** - To provide a fully accessible and energy efficient solution.

## Designed for Learning

The Belvedere Academy now has a fantastic new educational facility that allows more pupils to benefit from the excellent service they provide. This is a wonderfully designed and perfectly executed high care environment that has been created to encourage the highest standards of education at the school for many generations to come. With sustainability and maximum efficiency at the core, it also promises to remain an important example for all involved in how to approach these kinds of projects in the near future.



## Making the Grade With HighCare Plus



Every education project we complete must meet the highest standards of customer service & project delivery to be awarded with the Building Projects HighCare Plus accreditation. Our senior management team continually monitors and audits all the work we complete to guarantee these standards are maintained throughout the project.

## Let's Talk About Your Project

The team is always happy to talk about what we learned on previous projects. With the education sites subject to new focus in several ways, it's always a good idea to have that knowledge at your disposal.

**Contact us to get talking and learn how we can help your school get the most from its next building project.**



Connect with us  LinkedIn

### Head Office:

6 Graphite Business Park, Graphite Way  
Hadfield, Glossop, Derbyshire, SK13 1QH

Tel: 01457 861 702

Email: [info@buildingprojectsgroup.com](mailto:info@buildingprojectsgroup.com)