

## **Staff Promotions and New Team Members**

We are pleased to announce three new staff promotions as part of Stirling Maynard's ongoing continuity strategy. Andrew Dugmore and Andrew Elloway have been appointed as Directors, and Tim Hubble has been promoted to Associate Director.



Andrew Dugmore is a Chartered Civil Engineer specialising in water and environmental projects, general civil and structural design, asset management, and project management. Andrew Elloway is an Incorporated Structural Engineer and a member of the Faculty of Party Wall Surveyors. He specialises in structural design, with wide ranging experience but specialising in the food industry, education and housing sectors. Tim Hubble specialises in the retail sector, providing significant project management and design expertise for a number of our key clients.

We are also welcoming two new engineers at Stirling Maynard. David Dunlop and Dino Lopez have joined the team as structural engineers, while Garry Dunnett has returned to Stirling Maynard taking up a senior role in the company's infrastructure engineering department.

Stirling Maynard is a privately owned business that has provided civil, structural and infrastructure design, and advisory services to a wide range of clients from our base in Peterborough for over 90 years.

## New Extension for Popular Peterborough Primary School

Stirling Maynard has been commissioned for a new extension to a Peterborough primary school. Following on from the success of our previous extension work two years ago, our team of civil and structural engineers have returned to Woodston School to provide detailed designs for the current project. Woodston is one of Peterborough's most successful primary schools, and the new extension is set to transform it into a three-form entry school.



Photo from Frank Shaw Associates

In 2015 we worked alongside our clients Peterborough City Council and Kier Construction to provide the school with a new hall, eight additional classrooms, and new staff facilities. We are pleased to be working with the same clients in 2018 to bring the students and teachers of Woodston School essential new facilities in response to increased demand for

student places. The combined single and two-story extension will coincide with minor alterations to the existing building, and includes the following improvements:

- Seven new classrooms
- A studio
- A food technology and breakfast room
- A group room with ancillary spaces

In keeping with previous work to the school, the steel-framed extension will be clad with brickwork to create a consistent appearance. The extension will be constructed to the South-East of the existing school to visually close off the car park and form a barrier between the public and private realms on the site. The layout of the extension will measure approximately 1200m<sup>2</sup> and allow maximum external space for the public play area.

The existing car park will be extended to provide 18 extra spaces along with additional cycle and scooter parking.

## Beddington Park Refurbishment

In July 2016, Sutton Council were successfully awarded funding from the Heritage Lottery and Big Lottery funds to deliver a £3.7 million project to restore, conserve, and enhance Beddington Park in south west London. Stirling Maynard have been appointed as part of Land Use Consultancy' team for the refurbishment of the 58 hectare park and the Grange Lake.



The main construction works are currently underway, and include the development of new and existing garden spaces, enlargement of the children's playground, and improvements to the park's entrances, access and parking. Both the Grange Lake and Stock Pond were in need of restoration due to disrepair and heavy sedimentation. These works are being undertaken as part of the council's commitment to improving the

environment for residents of the area, and involve the following activities:

- De-silting/dredging of the Grange Lake and Stock Pond
- Works within the River Wandle flood plain
- Temporary impoundment/diversion of the River Wandle
- Temporary and permanent works to alter the existing impounding outfall structures from the Grange Lake



The Grange Lake is a historic online lake created by damming the River Wandle to create a mill pond for Wallington Mill. During the refurbishment, it has been drained through the existing tilting weir that leads to the river. Once the maximum drop in water level had been attained through gravity drainage, temporary pumps were then employed to further reduce the lake's water levels.

The dredging process will remove approximately 6,500m<sup>3</sup> (wet volume) of silt from the Grange Lake, which is being used for re-landscaping works on parts of the island within the lake footprint. A quantity of the dredged silt is also being used to improve the margins around the perimeter of the lake.

The Stock Pond is also being dredged, with approximately 2,000m<sup>3</sup> (wet volume) of silt to be repurposed for the creation of landscaped bunds around the edge of the pond. Built between 1868 and 1896, the pond was historically thought to have been used to supply water from the Wandle into the drainage system to the north of Beddington Park. Until around 20 years ago, the pond was home to a wide variety of water plants, and was a potential breeding site for aquatic and amphibious creatures.



The water off-take pipe that currently feeds the pond from the River Wandle is very high in relation to the normal river water level, which results in a lack of water supply under all but the highest flow conditions within the Wandle. The proposals involve installing an adjacent borehole and associated headworks to supply the Stock Pond with water.

## **New Workshop, Warehouse and Offices for Wirtgen Group**

Stirling Maynard is currently working on a new project for Wirtgen Group, a market-leader in the production and maintenance of road construction and mineral processing equipment. The £9.2m development, managed and constructed by our client Lindum Group, will provide Wirtgen Group with a new UK head office, together with stores facilities, a workshop, and a warehouse. The development is located at a 3.86 hectare greenfield site that is part of the former Winthorpe airfield in Nottinghamshire to the northeast of Newark-on-Trent.



Our team carried out the detailed civil and structural designs for the site's new building, parking facilities and external hardstandings, which will be used to store plant and equipment. The steel-framed building will be constructed with reinforced concrete foundations and feature gantry cranes for the assembly and maintenance of Wirtgen's eco-friendly machines. The bulk of the external hardstandings will be constructed in Roller Compacted Concrete. Surface water runoff will be attenuated on site and discharged to the adjacent Internal Drainage Board watercourse at a greenfield runoff rate. Stirling Maynard also specified a new wastewater treatment plant and obtained discharge consent from the Environment Agency.



The site is to be linked to the A17 Long Hollow Way roundabout via a new access road and cycleway that have also been designed by Stirling Maynard. These will be offered to the Highway Authority for adoption. This road will also provide access for the development of a future business park in the area.

## Greencore Prepared for the Future



Leading international food manufacturer Greencore is in the process of receiving a substantial upgrade to its Warrington Prepared Meals facility, thanks in significant part to Stirling Maynard's input into the development, which aims to secure a sustainable future for the site by improving the factory's design and functionality.

Working closely with the client and design team, work commenced in 2016 on implementing our team's civil and structural design, which re-imagines the inner workings and external features of the site to ensure the facility is fit for the future. Radical alteration and extension work is being undertaken to enhance staff welfare and assist with increased production.

The Greencore Prepared Meals group, who produce popular food products for the supermarket giant Tesco, will witness an overhaul of its internal structures to accommodate new automated production lines and improved access to chilled storage and despatch areas.

The redevelopment was approved after a supply base review in 2015 concluded that the group would gain new responsibility for the remainder of Tesco's Italian chilled ready meals business. Following an intense design period, works started in August 2016 with the project targeted for completion in September 2018.



Our team's design for the newly named 'Italian Centre of Excellence' brings the 1980s site up to date with a focus on solving existing efficiency issues and providing additional welfare facilities for its expanding staff base. Integral improvements are being made to the facility's interiors and office spaces, with new-build extensions consolidating onsite operations.



The upgrades to the site will see existing front unit extensions replaced with a new chilled storage and freezer extension featuring connected delivery docks. Major re-facing of existing offices along the east elevation will culminate in the site's focal point: a new two storey reception and amenities building set to convey the enhanced image of the centre.

In keeping with the group's pride for efficiency, a new energy centre will house a boiler, cleaning in progress, refrigeration and odour abatement plant to reduce excess energy consumption and minimise Greencore's carbon footprint.

Stirling Maynard's Director and Project Manager Andrew Elloway says, "We are not inventing new technologies on this project, but it is the complexity of the varying civils works and structures, together with the interfacing of new and old while maintaining the site's 24 hour operations that have made this project so challenging. The complexity of the project, from the

integration of the existing and new drainage systems extending under the new piled structures, through to the scheme's 50m long pedestrian footbridge, has certainly kept both myself and our experienced design team on our toes over the last two and a bit years!"

## **Mrs Smith's Cottage Structural Inspection**

Mrs Smith's Cottage in the rural village of Navenby, dates back to the 1830's. It is a preserved example of an early Victorian, Lincolnshire residence and for over 70 years was the home of the eponymous Hilda Smith. Known for her preference for simple amenities over modern conveniences, she kept much of its original features and furniture intact and so it remains true to the era, featuring an original washhouse, meat safe, and open kitchen range with a surrounding flue.



After her death at the age of 102, North Kesteven District Council attained a bid for lottery funding, and in the year 2000, after an initial renovation project, was granted museum status for the cottage. In 2012 the museum was closed when structural issues and deterioration of the building became apparent and Stirling Maynard has now been commissioned to inspect, assess and design remedial works for the structure to help maintain this important heritage building.

During Phase one of the project, the roof of Mrs Smith's Cottage was removed to inspect the condition of the roof beams and determine the best approach for proceeding with repairs and sympathetic strengthening details. Phase two of the project, which will involve undertaking the essential structural repairs and conservation work, alongside improved access to the site is planned to take place later in the year with the aim of reopening the cottage to the public in the summer of 2019.



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CONSULTING ENGINEERS



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