

Michael Liddiard BEng (Hons)

Associate



After graduating from Bristol University in 2014, Michael has been employed by JPP. As part of his role Michael also leads our software development team, responsible for delivering custom tools and workflows allowing us to provide a more efficient and comprehensive service to our clients.

Michael is experienced in structural design and detailing in particular of large steel framed structures, including connections and foundations from concept to completion. Working along side commercial clients ensuring that desired schemes are delivered practically and on budget. Michael is also skilled in appraisals and foundation design and has extensive involvement with private clients on domestic extensions, providing full design and detail of all structural elements including timber, masonry and steelwork. His knowledge extends to providing design of external levels and drainage ensuring a close integration with both civil & structures.

His understanding with specification and design of external surfacing and retaining elements, simulation of drainage networks and production of supporting calculations specification and design of external surfacing and retaining elements is vast as well as simulation of drainage networks and production of supporting calculations, including specification of SUDS and flow control systems.

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The Asps, Warwick



Image Credit - Taylor Wimpey Midlands

The Asps, Warwick is a mixed development that includes 900 dwellings, two commercial areas, a school and a park & ride.

The site is split with Taylor Wimpey Midlands constructing 450 dwellings and Bloor Homes constructing a further 450 dwellings.

JPP Civils' instruction for the site back in 2020 included preliminary engineering drainage and levels strategy, detailed planning support, road and sewers drawing packs, detailed levels and drainage designs and foundations designs for the full 900 dwellings.

Since our instruction, JPP Civils in Northampton have worked to help secure planning approval for the main infrastructure of the development as well as the separate phases for both Taylor Wimpey and Bloor Homes.

We are working to secure Section 38 and Section 104 technical approvals for the on-site roads and drainage and we also carried out the plot parcel designs for our clients with the help of Luke Palmer and his team completing foundations.

Construction work has since started on the main spine road through the site at the Southern Banbury Road site access.

The first section of the road has been constructed up to the base course and the large pond/swale running along the far site boundary has been excavated.

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Houlton Residential Development



JPP were appointed by William Davis to produce a full civil and structural engineering design for a new residential development comprising of 146 dwellings within the wider infrastructure development in Houlton, Rugby.

JPP works included:

- Initial constraints plans/optioneering works due to the challenging topography of the site and drainage discharge points.
- Producing detailed on-site drainage design including full Section 104 drawing package.
- Producing detailed on-site road design including full Section 38 drawing package.
- Design of all private drainage and external levels to the William Davis specification.
- Producing a detailed cut and fill analysis to inform our client of the earthworks shift requirements to build the scheme out.
- Designing an off-site footpath and associated earthworks to tie into an existing footpath to the south of the site.
- Producing details of the wildlife tunnel crossing beneath the proposed adoptable road extents to ensure an existing 'green corridor' is maintained following construction of an adoptable road which intersects the corridor.
- Taking the scheme through to technical approval with Warwickshire County Council for the adoptable roads and Severn Trent for the adoptable drainage network.



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Hall & Woodhouse Crowthorne



Hall & Woodhouse Crowthorne opened in early 2025 and is located on the edge of the village of Crowthorne in Berkshire, a gateway building to the Buckler's Park residential estate and near to the beautiful 102-hectare Forestry Commission site of Buckler's Forest. The building is operated by Hall & Woodhouse, the Dorset based brewer of Badgerbeer with 190 pubs throughout southern England.

Overall Architecture was provided by Mackenzie Wheeler Architects and Designers.



The structure of the building combines a steel frame with a mixture of masonry and timber frame along with beam and block flooring at ground floor level, precast hollowcore planks at first floor level and timber posi-joists at second floor level.



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Wickes, Crawley



The works comprised the construction of a new “flagship” outlet for Wickes, located in the heart of the retail sector in Crawley.

With its modern glazed façade and unique architectural parapets the style of the branch was a first for Wickes and required value engineering to bring the scheme within the clients budget.

The scheme incorporated the use of SUDS and other sustainable features to comply with the Local Authorities planning policy requirements.



In addition to our main appointment we were responsible for producing phasing drawings of the surface water drainage installation to ensure no interim flood risks existed on the brownfield site.



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