

CASE STUDY



Waitrose

Client: John Lewis Partnership

WHAT'S THE STORY?

Plowman Craven has worked closely with the John Lewis Partnership for almost a decade, providing a range of surveying and modelling services for Waitrose branches and John Lewis stores across the UK. Projects have included the Store Improvement Project (SIP) programme, a number of new acquisitions including Admiral Park as part of the Project Redwood acquisitions in the Channel Islands, plus work at various distribution centres and the Bracknell campus.

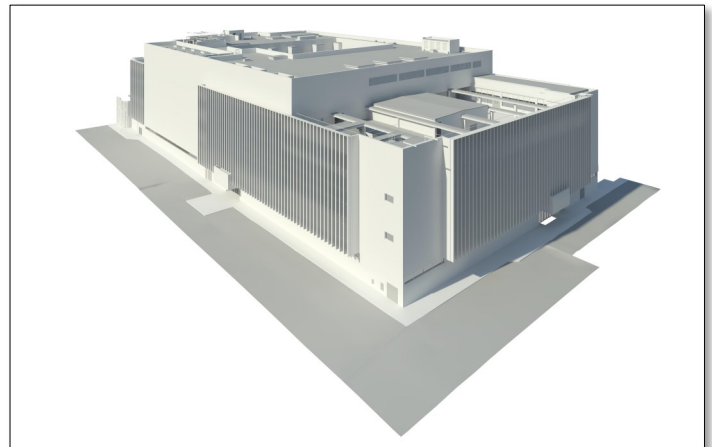
Given the long association, Plowman Craven clearly understands and is aligned with JLP's operating requirements and cultural expectations. Relationships with Waitrose, Underwood Carpenter and B&R Architects are well established and works totalling £650k have been carried out to date. Our surveyors have extensive experience of surveying during store opening hours and pay particular attention to ensuring clear lines of communication are established between Plowman Craven and the Waitrose team, particularly the Branch Manager.

Every effort is made to minimise customer and staff disruption, from deploying a single, lightweight scanner to consulting on peak business times and delivery schedules to ensure that areas such as the service yard, loading bay or stock rooms are worked on at the most opportune times. Our working relationship with on-site teams has always been excellent and we find that clear communication helps to ensure that the necessary data is captured as efficiently as possible.



AT A GLANCE:

- 10 years working for John Lewis Partnership
- 145 Waitrose branches surveyed nationwide
- Bracknell Campus plus UK distribution centres
- Range of deliverables incl. BIM models, floor plans & UGS
- Collaboration with Underwood Carpenter & B&R Architects



Revit Model of JLP Brent Cross store

What has been worked on?

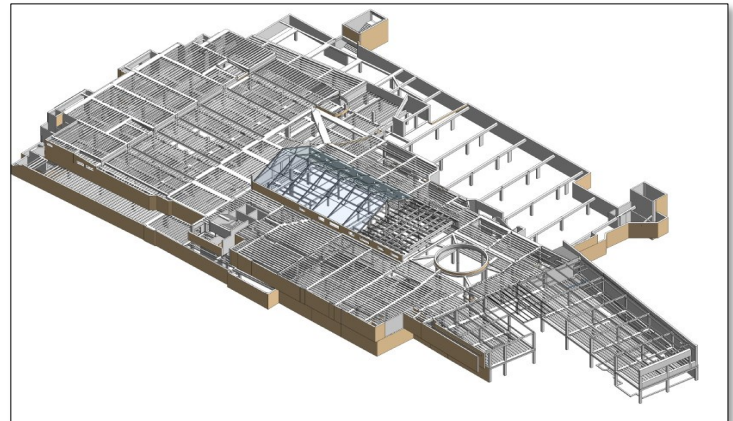
- **145 Waitrose branches UK-wide:** survey work providing everything from 2D floor plans and reflected ceiling plans to roof plans, external elevations and topographic surveys of car parks and service yards.
- **New-build branches:** checking of as-built areas, also work on convenience stores.
- **Existing branches:** surveying 53 areas the e-Commerce team, survey deliverables included localised floor plans and Area Measurements.
- **Bracknell Campus:** Head Office (Taylor House), Partner Car Park, Visitor Car Park, Hyde House, Holland House, plus a survey along the length of Doncastle Road.

Waitrose

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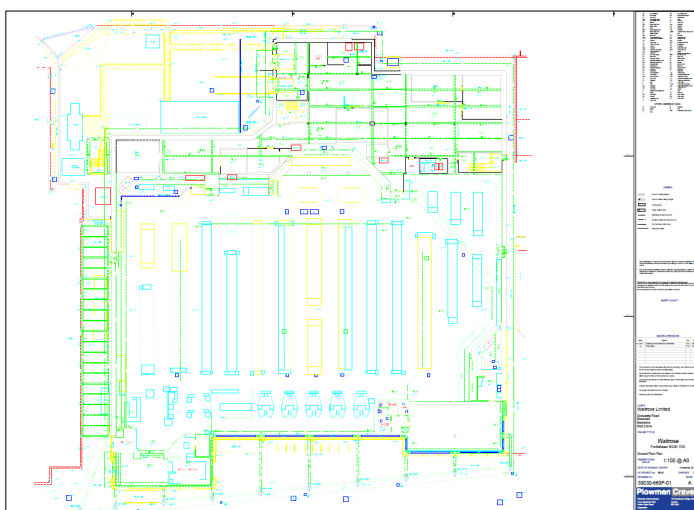
What did we do?

- **Laser Scanning data capture:** We laser scanned all the external and internal elements of the selected Waitrose buildings to enable the creation of data-rich point clouds. A variety of scanning methods were required with roads, car parks and loading bays areas captured using a mobile scanning vehicle. Internal and external scanning required the use of static surveys equipment to ensure detailed results and elevations. Traditional GPS and total station technology provided the geometric control needed, with a network of permanent control station installed around the selected sites.
- **Building Information Modelling:** Revit models of selected buildings were produced from the point cloud data captured, with individual components and elements assembled together to create an intelligent, parametric BIM-ready model. Revit models were produced for Admirals Park in Guernsey and others, plus John Lewis stores in Brent Cross and Cheltenham. The models range from LOD2 to LOD4.
- **Measured Building Surveys:** The 2D elevations contained all main architectural features including windows, doors and plant, with levels taken to key elements. Floor plans were also measured and drawn to 1:100 scale, covering all primary structure and plant, including HVAC locations, switch rooms and data hubs. Partitions and fixed furniture such as racking and checkouts were included, as well as above-false-ceiling detail where required.
- **3D Topographical Survey:** Our surveying teams created 3D topographical surveys that showed roads, footpaths, building footprints (permanent and temporary), boundary features, trees/vegetation, street furniture, surface evidence of underground services, overhead cables, walls and steps. Road markings and individual parking bay markings were also included, along with ridge and eave heights plus roof finishes.



Revit model of JLP Cheltenham

- **Underground Services (UGS):** Our utilities team mapped the underground services routes, including: foul and surface water drainage, water pipes, gas pipes, electrical cabling, telecommunications cabling and a number of specific items such as data networking and alarm cabling. The UGS service routes data was then added onto existing survey data to form part of the topo survey.
- **TruView:** TruView was delivered on a number of Waitrose store projects, with its real-time measurement tools allowing all stakeholders to remotely pan, zoom, view and measure any visible details from the comfort of desk. TruView is a combination of high dynamic range photography taken from the laser scanned on-site positions and then mapped onto the actual point cloud data – it was particularly useful during the development of the new store at Admiral Park where designers required raw data as soon as possible.



Ground floor plan of Waitrose Portishead

About Plowman Craven

Plowman Craven provides integrated measurement and consultancy services to the property and infrastructure markets, pioneering the use of technical innovation to deliver proven expertise and trusted results throughout the project lifecycle.

Head Office

Plowman Craven House
2 Lea Business Park, Lower Luton Rd
Harpenden, Herts. AL5 5EQ
Tel: +44 (0)1582 765566

Email: post@plowmancraven.co.uk

London Office

115 Southwark Bridge Rd
London
SE1 0AX
Tel: +44 (0)20 7490 7700