

# Wembley Trunk Main

## KEY PROJECT DETAILS

<b>Client</b>	Affinity Water		
<b>Value</b>	£1.65m		
<b>Project Start</b>	November 2019	<b>Project Finish</b>	June 2020
<b>Location</b>	Wembley High Road		
<b>Works</b>	Construction and commissioning of 1.3km of 450mm DI and 500mm PE Trunk Main		



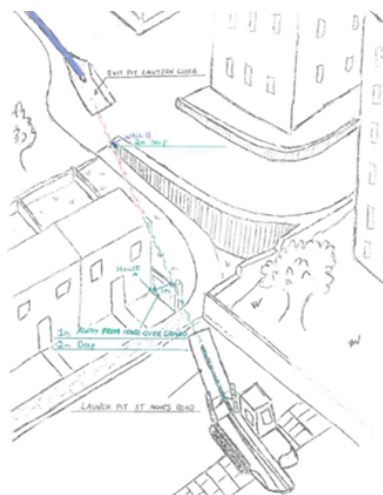
The Wembley Trunk Main Phases 3 & 4 project consisted of the installation and commissioning of approximately 1.3km of 450mm DI and 500mm PE reinforcement main including associated apparatus. The Wembley High Road scheme involved the open cut main laying of Ductile Iron pipework and direct connections onto 12" and 20" network via the use of Under Pressure Tee (UPT) connection methodology to minimise disruption to supply. These works reinforced the existing water network and improved water pressure to residents and businesses in and around Wembley, safeguarding the pressure for new Affinity Water customers in the area.

The project encountered a number of logistical and engineering challenges, navigating a route along the tight residential streets as well as along the busy Wembley High Road, whilst maintaining 2-way traffic and several TfL bus routes at all times. Proactive engagement with local residents, businesses including Wembley Stadium Event Management and nearby construction projects ensured that disruption was kept to a minimum during the duration of the project.

### Project highlights

During February 2020 there were some challenges associated with these works from both an engineering perspective as well as those presented from Storm Denis.

Firstly, a tricky section of the trunk main had to be navigated through a narrow corridor, surrounded by residential housing and a significant concrete wall supporting a ramp to a nearby car



park. The solution involved a directionally drilled route of 30m, drilled at a minimum depth of 2m, housing the 500mm PE pipe, from St Anne's Road to Lantern Close.



Disruption to local residents and the general public who use the footpath was kept to a minimum with this section of work being completed over a 10 day period. The no-dig solution ensured that only the entry and exit points for the drilling required re-instatement at street level. The actual footpath and grassed verge were untouched during the works, ensuring the aesthetics of the area remained unchanged.

On another section of the trunk main, at the busy interchange of Elm Road, Park Lane and Wembley High Road, a full road closure was required to safely complete the works. The arrangement of this work required close alignment with Brent Council to minimise disruption to local businesses and residents whilst ensuring there was no impact on the Wembley Stadium events calendar.

Excellent Stakeholder management was implemented. The timing of the works coincided with the school half-term break to minimise traffic disruption. All local businesses and residents were kept fully informed of the works prior to commencing with door to door engagement and proactive letter drops. All customer concerns including questions related to local business deliveries and access to property were captured and addressed prior to the works commencing.

## Wembley Trunk Main



Over the 9 days where this 100 metre section of trunk main replacement took place, the country was hit by Storm Dennis. This made for difficult working conditions as both the high winds and intense rainfall were a constant presence. Despite the forces of nature conspiring to delay the works, the team worked extended hours to ensure that the roads re-opened in time for the schools going back on the Monday morning.



### Adaptability and Collaboration

The Wembley Trunk Main project involved the J Browne operations team being adaptable over the duration of the project as the priorities of the key stakeholders changed during the COVID-19 pandemic. This positive collaborative approach was recognised by Brent Council.

The close communication and engagement model used by J Browne allowed the installation, connection and commissioning of the works to be completed ahead of schedule whilst maintaining customer and stakeholder satisfaction.

This proactive, open, communicative approach has demonstrated a positive image of J Browne's ability to deliver within a tight timescale and a challenging environment whilst

helping to reinforce a positive long lasting relationship for Affinity Water with the local agencies involved in Brent and the surrounding Wembley area.

Trevor Hulin, New Roads and Street works Team Leader for Brent Council highlighted a number of positives from the project;

“J Browne have been excellent in their execution of these works and managed to complete the project whilst adhering to the COVID-19 Government guidelines. The standard of their work and collaboration throughout has been exceptional. J Browne kept in constant contact with Brent Council, so we were always aware of what was going on with the project. Considering the location of the works there was always the potential for a lot of complaints, but this issue was addressed by J Browne regularly communicating with the premises along the route over the duration of the project.”