

Crossrail West Enhanced Stations Phase 2 – Work Package 2

# On the inside track of Europe's largest infrastructure project

**£50m**

/ Project value

**June 2019**

/ The project commenced

**June 2021**

/ Scheduled completion

We are on the inside track of Europe's largest infrastructure project – Crossrail – having been appointed to construct and upgrade three railway stations as part of the new high frequency, high capacity railway for London and the south east. To be known as the Elizabeth Line when services begin through central London in 2022, the new railway system will be fully integrated with the existing transport network. In order to improve journey times, ease congestion and offer better connectivity for c200m passengers each year, many of the stations along the route require significant upgrading. We are in the process of constructing two completely new stations in West Ealing and Acton Mainline, and significantly remodelling Ealing Broadway. Valued at £50m, all three schemes, which are located on the Great Western Main Line, fall under the Crossrail West Enhanced Stations Phase 2 – Work Package 2.

## The brief

In May 2019, Network Rail appointed us to this nationally important infrastructure project that will help transform rail transport in London and the south east. A Network Rail NR12(A) - ICC Build Target Cost Contract is the mechanism for the delivery of the three Crossrail West Enhanced Stations Phase 2 – Work Package 2 schemes.



“Early in 2020, Covid hit, and it took a massive swipe at the progression of the stations. I feel that GRAHAM really took on board how important it is and also maintained their drive and direction in delivering the stations.”

Sean Curran  
Network Rail Construction Manager

“A lot of other projects on the Line have looked at GRAHAM in how they have put in these Covid mitigations and they have implemented the exact same assessments. It’s been nice working with GRAHAM. They have a young group of engineers who are all very focused on the same goal. They’ve gone right for it, and they should be commended for it.”

Sean Curran  
Network Rail Construction Manager

### The challenges

As part of the redevelopment process taking place at Ealing Broadway Station, we completed extensive works to the platforms to create PRM (People of Reduced Mobility) Access. The installation of structural steelwork for lifts and link-bridges on Platform 4 was a key milestone. Due to access constraints, the steel structures, each weighing on average 11 tonnes, were lifted from the top of the existing bridge, over the station building and onto the platform. The lift, using a 500tn crane, took place in close proximity to surrounding buildings. These works were successfully completed over two weekend shifts in November by a team made up of approximately 40 people. Disruption was avoided and full services were maintained in the process.

### The solution

Beginning in June 2019, we remain on schedule for completion in June 2021 despite progress being negatively impacted by Covid-19. Our efficient reorganisation, mitigation measures and health and safety focus in the face of such challenging pandemic conditions have been “commended” by Network Rail. The West Ealing Station works involve the construction of a new station, interior fit-out, telecommunications, step free access between platforms and street level, and the provision of ticket windows within the ticket office. The Acton Mainline Station is a reciprocal new build station project. The Ealing Broadway Station scheme features the construction of a new curved canopy, new glass structures, a new entrance, and a ticket hall with capacity for 17 standard ticket gates and one wide gate. It also includes platform extensions to accommodate the new Elizabeth Line trains, four new lifts, improved staircases and new toilet facilities.

### Outputs & Benefits

**Considerate Constructors Scheme (CCS):** We have been awarded a Certificate of Excellence by the CCS. In four areas (Caring about appearance, Protecting the environment, Securing everyone’s safety and Valuing our workforce) we scored an “exceptional” 9 out of 9. We also scored an “excellent” 8 out of 9 in the Respect the Community category

**Mitigating disruption:** Possession over Christmas shutdown achieved 100% of planned works and handed back on time

**Design management:** We worked with Network Rail and its designers to identify and propose enhanced solutions. For certain elements of the works, we were instructed to engage our own designer, HBPW. As an example, HBPW designed the insitu staircase for West Ealing

**Social impact:** We delivered four workshops at a summer camp for Burlington Danes School in West London in collaboration with Let Me Play, a social enterprise group with a mission to support social change across the UK



For more information on how we’re delivering lasting impact:

+44 (0) 28 9268 9500

info@graham.co.uk

graham.co.uk

**GRAHAM**