

## Groundwork Services Advanced Greenwich Peninsular Regeneration



KNIGHT DRAGON

### Scope of Works:

Enabling works carried out across Knight Dragon's 200 acre site including trench work and trench support to facilitate pipe installation for a district heating network (DHN) for the new Aurora Hotel. Other works included deep excavation for clean water pipework; temporary road installation; re-routing a road junction; reinstatement works and resurfacing.

### Description:

Work involved digging trenches for 130m of pipework for a new DHN. Work also included digging 2m deep welding pits and supporting DHN installation by lifting 12m pipework sections into place. Works completed by laying base course and reinstating tarmac to leave minimal impact on the highway.

Other site works included:

- Groundworks to enable Thames Water to lay new pipework. Project required temporary installation of a bespoke supporting system to protect the existing 1.2m diameter high-pressure water mains from movement during tunnelling beneath.
- Reconfiguration of a road junction over the Blackwall Tunnel, including installing new curb islands.
- Installation of a site haul road (laid with stone and tarmac) on a brand-new plot to facilitate the development of a new apartment block.

### Challenges:

- Phasing of work to stay ahead of DHN installation schedule. Traffic management around the site – constant HGV movement required safety mitigation and night shift working.
- Preventing high pressure mains water pipework from movement - 4mm movement tolerance allowed. Pipework checked hourly by Thames Water.
- Dealing with security and strict site access protocols

### Outcome:

Projects were delivered on time. Mackin continues to work on site and maintains a very good relationship with VolkerFitzpatrick.

### Sector:

Regeneration

### Client:

Knight Dragon

### Main Contractor:

VolkerFitzpatrick

### Contract Value:

£300-400k

