



Plumstead Riverside Trunk Main

Client	SMBjv
Project & Location	Plumstead Riverside Trunk Main
Duration	Start: August 2019 Completion: January 2020
Infrastructure Requirement	Trunk Main Replacement
Scope of Works	<ul style="list-style-type: none"> ▪ Turnkey solution ▪ TWD, civils & reinstatement benefits ▪ Restricted working space installation ▪ No Dig Technology ▪ Accelerated Testing & commissioning of the Water Main

PROJECT OVERVIEW

The existing 18" CI main running along Plumstead High Street in Woolwich has been identified as requiring a duplication main in order to meet future demand growth in Riverside FMZ. This project was to install approx. 420m of new DN500 PE duplication main along Plumstead carriageway and foot / cycle path, including approx. 125m of trenchless installations and end connections into the existing 18" CI and DN600 DI mains at each end of the new pipeline.

Working with SMBjv, Instalcom have provided a complete turnkey solution which includes the site set up, traffic management, trial holes, bore holes investigation works, temporary works design, open cut trench excavation, construction of shafts for connections to existing mains and drill locations for an auger bore under the subway, dewatering for excavations, two under pressure connections, guided auger bore drilling, installation of 500mm PE water main and associated connections, commissioning, and reinstatement.

Instalcom provided an innovative solution to negotiate the subway by utilisation of an auger bored drill, selecting a horizontal thrust boring machine methodology with RSHV Steering System. This trenchless method enabled the installation using highly efficient cutting-edge technology as opposed to open cut methods. The RSHV method uses the Perforcam-Nova OEN system combined with tilt and angle sensors, which provided greater accuracy and control of the drilling operations both horizontally and vertically.

DELIVERY & INNOVATION

- Collaborative working with SMBjv to successfully deliver the project, safely, on time and to budget
- Innovative utilisation of Guided Auger Bore installation to negotiate existing subway / flyover structures
- Working closely with the Royal Borough of Greenwich for restricted access and third party interfaces

KEY CHALLENGES

- Vehicle/Plant access and egress
- Maintaining stakeholder access and relationships
- Protection of existing assets and structures
- Programme key dates
- Water quality
- Confined space working
- Traffic management
- Deep excavations and dewatering

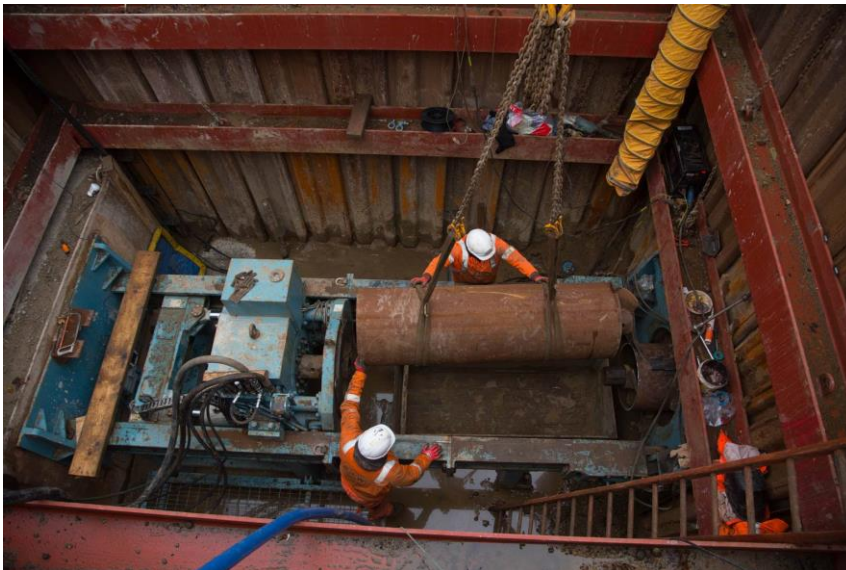


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PROJECT KPIs

- Achieved ZERO harm
- No Environmental incidents
- Project quality recorded and updated weekly. Kept to a very high standard and regularly audited by the client to ensure an efficient final handover
- Regular audits on H&S, environmental and documentation carried out both internally and by client, with generally minimal issues, rectified quickly
- Strong communication links between all project parties to ensure ongoing project efficiency with the intention of reducing rework with "right first time" ethos
- Instalcom have been proactive in approach to developing more efficient and safer working practices
- Potential issues such as existing utility obstructions have been identified early on, and avoided through planning and contractor interaction
- Where the existing obstructions could not be avoided, Instalcom have played a pivotal role in providing experienced design assistance to the client to develop cost effective solutions



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