



130KM FIBRE INSTALLATION

WELWYN TO SLOUGH



Value	Multi-million
Distance	130km
Capacity	N/A
Client	Undisclosed
Duration	10 months
Completion Date	February 2019



Pre-construction

Client appointed JSM to deliver a new network build for their client. JSM delivered this complex project in its entirety including surveys, redesign, construction, fibre installation and testing.

Construction

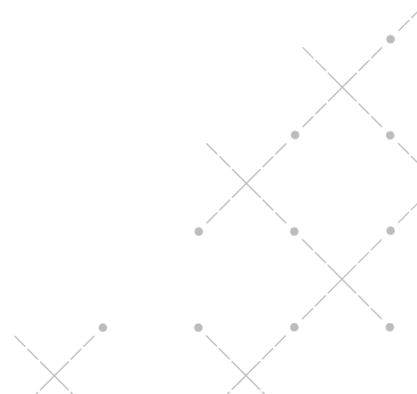
The 130 km route crossed multiple boroughs and third-party land, requiring permits and stakeholder coordination. It was split into nine spans to speed up delivery. JSM carried out civils, Horizontal Directional Drilling (HDD), ducting, and installed 130 km of fibre with 64 joints. Over 100 SEDs were managed, including canal and bridge crossings.

Post-construction

Challenges from structures and third-party networks were resolved through redesigns and trial holes. Stakeholder engagement was maintained through regular meetings, ensuring smooth delivery across all spans.

- Surveys and route proving
- Duct roping
- Civils
- Chamber build
- Duct supply and Installation
- 432f Fibre Installation

- Splicing and testing
- Project management
- Permits and notices
- Traffic management



PROJECT CHALLENGES

CHALLENGE



Multi-Borough Route & Third-Party Land Access

Long Route Complexity

Special Engineering Difficulties (SEDs)

Third-Party Network Dependencies

Canal Towpath Access

Fibre Installation & Testing

SOLUTION



JSM conducted extensive stakeholder engagement and secured all necessary permits through regular meetings and negotiations.

The route was divided into nine spans to optimise planning and delivery.

JSM used trial holes and redesigns to ensure buildability and avoid delays.

Alternative routes were designed to maintain programme timelines.

JSM used barges and pontoons to manage access and carry out works safely.

JSM completed installation and testing (CD and PMD) efficiently across all spans.

