



NRT Data Centre Fibre Links - Farnborough Rail Works

Client

Network Rail

Project & Location

NRT Data Centre Fibre Links – UK Wide

Duration

Start: September 2018

Completion: August 2019

Infrastructure Requirement

Network Upgrade

Scope of Works

- Supply engineering & design services, to support & deliver all requirements of GRIP 4-8
-

PROJECT OVERVIEW

In order to support various Network Rail Telecommunication projects (Trans-Pennine Initiative; CP6 Transition Programme; Project Swift 2) connections to Data Centres outside of the railway boundary were required in order to provide interfaces and connectivity.

Instalcom Limited were engaged as Principal Contractor to undertake the survey, design and installation of a telecom fibre network at locations in Leeds, Manchester, Farnborough, Corsham, Glasgow, Edinburgh and Milton Keynes.

Due to client diversity requirements a total of 14 x routes were designed.

Employing a phased delivery approach and adhering to all appropriate Railway Group, Network Rail Company Standards, ORR Railway Safety Principles and Guidance, National & European Standards/Legislation ensured a 'right first time' approach for design and installation.

DELIVERY & INNOVATION

- Works were delivered using in-house teams and resources. Instalcom has access to 11 established yards/offices across the UK and this ensured geographically local teams could be deployed in an effective and efficient manner whilst minimising our carbon footprint.
- Horizontal Directional Drill was used to value engineer a portion to the route resulting in 35% cost savings to the Client and minimal disruption to road users.
- Instalcom was appointed Principal Contractor.
- Instalcom was responsible for civil and telecom designs.
- Instalcom adopted a collaborative approach working with Network Rail and Local Highway Authorities.
- Rail side works at Farnborough were on top of an embankment and were delivered with a mixture of line blockage and separated (Site Warden).
- New by pass route was installed along the route together with route stabilisation (ballast board and post retention).

KEY CHALLENGES

- Communication and coordination was key. Holding and attending regular meetings resulted in stakeholders being kept informed and engaged throughout the process.
- Variations and change managed via the Integrated Project Schedule



FARNBOROUGH DATA CENTRE

Instalcom Ltd

PROJECT KPIs

- Works delivered with no accidents or incidents.
- Works delivered ahead of programme.
- Health and Safety files approved by Client.
- Successful brand promotion of Network Rail.
- Positive management and communications strategy with both internal and external stakeholders.



CONTACT US

Want to know more about the Instalcom infrastructure service offering in the following sectors:-

- Power
- Water
- Telecoms
- Rail
- Multi-Utilities
- Natural Resources
- Horizontal Directional Drilling

Contact us at:-

Instalcom Ltd
Borehamwood Industrial Park
Rowley Lane
Hertfordshire WD6 5PZ
T: 020 8731 4600
info@instalcom.co.uk
www.instalcom.co.uk



Delivering Today for Tomorrow

