Instalcom Ltd

NRT MNO GSM-R Infill Site Henley on Thames

Client

Network Rail

Project & Location

MNO Infill Site – Henley on Thames

Duration

Start: March 2018

Completion: September 2019

Infrastructure Requirement

Network Upgrade

Scope of Works

- Supply engineering and design services, to support and deliver all requirements of GRIP 4 – 8
- Work package – Survey, design and installation of MNO GSM-R Infill site.
- Installation, Terminations, Splicing, Testing, Vegetation & De-Vegetation.

PROJECT OVERVIEW

In order to overcome GSM-R signal coverage issues caused by 3rd party developments (MNO) Network Rail required an "infill" site to be designed and installed at a suitable location near Henley on Thames railway station.

Instalcom Limited were engaged as Principle Contractor for the survey, design and installation of a fully compliant / integrated GSM-R site that would be fully supportable via NRT TEC, TSCD and the designated maintainer. All contract works were covered by GRIP 4-8 deliverables.

The survey and design requirements were extensive and covered various disciplines including civil, electrical (DC and AC), UPS, earth systems, radio systems and fibre telecommunication systems. All designs met the relevant Railway, British and European standards.

KEY CHALLENGES

- Working adjacent to local business units including a nursery and stables.
- Constrained access and egress for material/plant deliveries.
- Uncharted buried services located on NR land.
- Retro-fitting of 'NR free issues' cabinet.

DELIVERY & INNOVATION

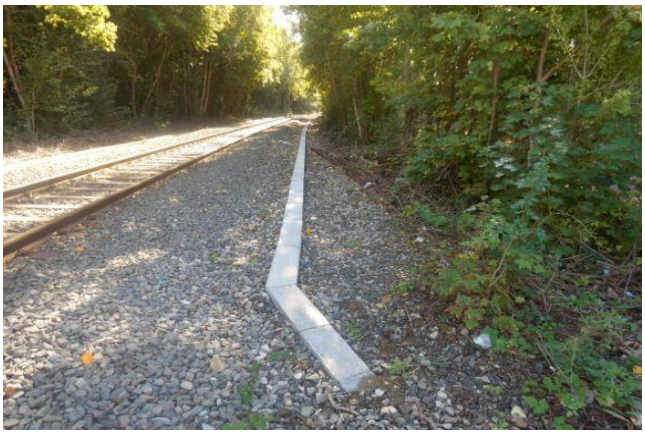
- Ground investigation and design works were undertaken by external consultants managed by Instalcom and works delivered using in-house resources.
- Instalcom appointed as Principal Contractor.
- Prioritising the power and fibre design elements enabled timely procurement of long lead items.
- Instalcom responsible for civil and telecom designs.
- Instalcom adopted a collaborative approach working with Network and Local Highway Authorities.
- Due to the safety critical implications associated with 3rd party Mobile Network Operator (MNO) interference it was imperative to survey, design, install and commission the site within the shortest possible duration.
- Scope included vegetation clearance - Piled Ground investigation – Excavation and installation of concrete mast base – Excavation and installation of LCC base and cabinet – Mast delivery and installation – Trough route installation – Chamber installation – DNO load monitoring and associated electrical works, termination and testing under power outage – Fibre cable terminations, splicing and testing – RF cable termination and testing – H&S file submission.

HENLEY ON THAMES MNO INFILL SITE

Instalcom Ltd

PROJECT KPIs

- Due to the safety critical implications associated with 3rd party Mobile Network Operator (MNO) interference it was imperative to survey, design, install and commission the site within the shortest possible duration.
- 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.



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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

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