

WIDNES HDD UTX – HV CABLES

Vital Consultancy were appointed as Rail Specialist for this design and build UTX project liaising with Network Rail ASPRO, the Client and their appointed representatives throughout Design, NWR Engineering Approvals, HDD installations and track / infrastructure monitoring.

**Location:**
Widnes**Programme:**
12 months**0 Accidents
and
Incidents**

Scope of Works

- Ground Investigations (Boreholes) and interpretive reports to 15m deep.
- Pile depth investigations utilising magnetometer testing.
- (DURS) Desktop Utility Record Searches, Topographical Surveys, (GPR) Ground Penetrating Radar, Utility detection and Drill profile surveys.
- CEM, CRE Design and CRE Construction.
- Network Rail Design Submission Form G combined.
- Preparation and submission of monitoring and drilling (RAMS) Risk Assessments and Method Statements.
- Installation of 2 x 500mm diameter reams each containing 4 x 180mm O/Diameter SDR11 MDPE ducts 12 metres beneath rail sleepers.
- Drilling route passed beneath:
 - Ditton Brook and associated flood defence panels.
 - 4 x Network Rail Main Lines.
 - Dis-used Station and associated platforms.
 - Sidings lines.
 - OLE Gantries.
- Monitoring of Network Rail Infrastructure in accordance with NR/L2/CIV/177.

Collaborative and Efficiency Delivery

All works were non-disruptive to Network Rail. These works were planned with Network Rail ASPRO and related project stakeholders.

- Regular meetings were held with Network Rail and the client throughout the works. Management Team Vital Consultancy ensured compliance and assurance with Network Rail standards and requirements
- Both crossings were carried out using HDD Technique taking circa 14 days to install with monitoring carried out on a 24/7 basis in line with NR/L2/CIV/177.
- Working programme updated as required to encapsulate Document Review Notices (DRN).

Communication and detailed planning were key. To achieve this, our planning team engaged in regular Microsoft Teams meetings with the Client's Project Management Team and Network Rail ASPRO Team to align and discuss:-

- Project Programme.
- Wayleave Agreements.
- Possession Applications.
- Deliveries and laydown areas.
- Launch and reception pits.
- HDD Installation requirements.
- Design technical queries.
- Network Rail Track and Infrastructure Monitoring.



"A great display of multidisciplinary programming, planning and delivery by Vital Consultancy Services. An ever-expanding scope was always met head on by the team."