

Under Road Crossing

Grove Park Level Crossing



THE PROJECT

The existing 1000mm Positive DC cables at Grove Park Level Crossing were identified to be doubled, the existing duct block did not have sufficient capacity for the 2 additional 1000mm Positive DC cables so a new 6-way buried duct route and Cable Management Sleepers were required.



Project Value

£200K

Project Started

**July
2024**

Project Ended

**August
2024**

Client

**Network
Rail**

THE DELIVERABLES

- In house Civil and E&P Design including all CEM and CRE Duties
- Installation of new 6-way buried duct route, 6 Nos. 150mm ID ducts with 150mm separation within a concrete surround, 1050mm from the underside of sleeper level.
- Removal of 6 Nos. existing sleepers and installation of 6 Nos. EG53 Cable Management Sleepers
- Installation of new 1000mm DC Positive DC Cables, including termination and testing.
- Track Management including Track Monitoring and Critical Rail Temperature Management.

CHALLENGES & SOLUTIONS

Multiple buried services were identified at the Level Crossing using a Ground Penetrating Radar Survey, informing the design and excavation, which was carried out by vacuum excavator where possible.

To keep the footway open to the public, a manned pedestrian bridge was used to span the open trench.

Installation teams worked in 30°C heat, conditions were managed by increasing the use of mechanical plant.

