



Hertford Loop - New OLE Structures

Client: Network Rail Eastern | Value: £8.4m | Project Start: 03/20 | Project End: 03/23

Scope of works

The Hertford Loop runs between Alexandra Palace and Stevenage on the ECML via Hertford. This 2-track railway was electrified with Mk3A equipment in 1977.

SPL Powerlines UK have been appointed as Principle Contractor to deliver the works. The works were delivered in 14 continuous phases of work both design and construction and included:

- Site surveys of existing conditions
- Full AFC OLE and foundation design
- Setting out of new piles
- Piling, steel erections
- SPS installation
- Wire change over to new structures, including boosted overlaps areas, removal and disposal of life expired asset.

Identifying and understanding issues early

Network Rail have identified 205 OLE structures that are failing throughout the Hertford Loop, starting at structure EH09/02 (km 9.056) to EH41/23 (km 41.726).

Failures identified are due to a combination of factors including, life expiry, earthwork deterioration, external influences such as burrowing around the foundations of the structures.



WORKS DELIVERED BY SPL POWERLINES UK INCLUDED

17 No boreholes

205 No trial holes

Combination of 205 steel pile and CFA foundations

New single cantilevers

SPS and final wire transfers

3 New boosters installed