



matt durbin associates
.....engineering integrity

Hemingford Culvert Repairs

The Hemingford Culvert Repairs were carried out for Kier/TVO as part of a handover of a structure to a public Client. A previous contractor had tried to repair a water main that was laid over the existing culvert and damaged the culvert in the process. This contractor then used corrugated asbestos sheeting to repair the damage and backfilled the structure without telling the owner.



The existing culvert was overlaid by a 10" asbestos pipe and also had live fibre-optic cables running over the soffit and through the poorly repaired concrete section.

MDA asbestos awareness trained operatives carefully exposed the asbestos pipe and associated live cables and used local licensed Asbestos Removal contractors to remove the waste from site.

Once the water main had been removed and the live cables had been re-diverted, the works could begin to repair the culvert structure.



With the obstacles removed, MDA broke away the existing culvert until the arch was deemed structurally safe, we then formed internal and external timber shutters to match the existing soffit shape. With this completed the steel reinforcement could be tied to provide structural support and durability and the C40 concrete was poured and compacted carefully ensuring a quality finish both internally and externally.



The photos above show how the concrete was poured to form the exact shape of the existing culvert which was to the great satisfaction of the Client. This project was finished off by carrying out a full internal video condition survey of the 30m long culvert which could be used in the handover documentation to the Client.

Another excellent project completed for MDA without accident or incident.