

Beech Farm Bridge

Cathodic Protection & Concrete Repairs



Project: Beech Farm Bridge

Client: Enterprise Mouchel

Cathodic Protection & Concrete Repairs

Main Contractor: Enterprise Mouchel

Date: February 2011



The Problem

Water and de-icing salts along the 'splash' zone of the abutment walls to this road bridge have caused the reinforcement steel within the concrete to rust and corrode. This expansion due to the rust has caused the surface concrete to spall and crack leaving the reinforcement steel exposed to further attack.



The Solution

A full concrete survey was carried out in order to determine the condition of the concrete and location and condition of steel reinforcement bars. A full concrete repair system was used in order to repair the defective areas. A Cathodic protection system was designed using Galvashield XP zinc anodes to provide localised protection to the perimeter of the patch repairs. Galvashield CC anodes were drilled and fitted to provide targeted corrosion control to the surrounding sound concrete. An anti-carbonation coating was used to provide further protection to the 'splash' zone of this roadbridge.

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Case Study