



INTERNAL PIPE HydraTite® JOINT SEAL

Market
DOT

Challenge

13 culvert joints had become separated under a state route. This could eventually become a safety concern for the roadway above. A solution was needed that could be installed quickly without detrimentally affecting the traveling public. There were no plans to dewater the culvert and so the solution need to be installed despite the water.

Engineered Solution

The HydraTite Internal Pipe Joint Seal was selected as the rehabilitation technology. Depending on how far the joints had separated, various widths had to be used. This HydraTite seal can be installed in partial flow and so the pipe did not need to be dewatered for the repair.

Scope

The entire process was completed in two days. First, the pipe surface needed to be inspected and cleaned. Lanes were temporarily closed, and then seals were installed mechanically using a hydraulic expander.

Solution

HydraTite proved to be a timely and cost-effective method of rehabilitation. The seal would ensure that these sections of the culvert would not need to be replaced. The above roadway was affected less and for a shorter time than a full replacement would have required.



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