



Re: City of Richmond – No. 1 Road Box Culvert Rehabilitation

The City of Richmond has over 56 km of concrete box culvert across the city for storm water management. These box culverts were constructed in the 1960's and 70's to direct storm water to the pump stations around the city. In recent years, the City has started to experience the development of some depressions and sink holes adjacent to these box culverts. The cause has been determined to be a combination of separating cold joints, the use of fine backfill material, and the city's high water table. Although the boxes are structurally sound, the high water table makes it difficult to effectively repair separation at the bottom of the culvert.

In order to address the aging box culverts, the city is researching suitable technologies to rehabilitate the city's vast network of box culverts. The No.1 Road Rehabilitation Project was the city's pilot project for the Glass Reinforced Plastic (GRP) panel developed by Channeline International and was installed using the trenchless method by PW Trenchless Construction Inc.

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