

Lakefield East Drainage Channel Improvements

Client: Peterborough Housing Corporation

Year: 2008



SERVICES PROVIDED

CCTA was retained to complete the detailed design for the relocation and reinstatement of the Lakefield East Drainage Course in support of a 50 unit residential development. Previously, the Lakefield East Drainage Course bisected the development site and most of the property was located within the channel's Regional floodplain. To maximize the land available for development the Regional flood elevation across the site had to be lowered through drainage improvements.

The improvements included relocating and reinstating the drainage course with a natural channel design that effectively conveys streamflow around the development and maintains existing Regional floodplain storage volumes and aquatic habitat. In addition, a second culvert was added to the culvert crossing immediately downstream of the site. This eliminated the flow restriction and resultant backwater condition which the existing culvert had created across the site. The drainage works were constructed in 2008 to the satisfaction of the Otonabee Region Conservation Authority and Township of Smith-Ennismore-Lakefield.

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