Rehabilitation and Replacement of Jordan and Campden Sewer and Maintenance Holes for the Town of Lincoln
Robinson Consultants has partnered with the Town of Lincoln to complete the Design and Construction for the Rehabilitation and Replacement of Jordan and Campden Sewer and Maintenance Holes (MH). The Town of Lincoln is located in the Region of Niagara and is currently the fourth fastest growing municipality in the Region with a diverse economy including agriculture, small advanced manufacturing and health care. The purpose of the project is to mitigate the identified deficiencies in the Jordan and Campden sewer systems through trenchless rehabilitation and replacement techniques due to identified Inflow & Infiltration (I/I) and H2S corrosion concerns. Based on preliminary CCTV inspection information of these areas, it was identified that thirteen (13) MHs and six (6) sewer segments in the Jordan and the Campden Area require rehabilitation due to infiltration concerns. The recommended form of rehabilitation for the Sewer sections is chemical injection grouting to address the identified infiltration and CIPP spot repairs. For the MH deficiencies, a combination of chemical injection grouting and MH parging was recommended. Additionally, the Town identified three (3) MHs originally for spray-applied lining rehabilitation however due to severe H2S corrosion, these MHs were recommended for replacement. RCI is currently completing the design and specifications development for the upcoming rehabilitation and replacement in order to address these identified defects. For those MHs requiring replacement, additional corrosion protection measures are being considered to prevent future H2S corrosion of the new MHs. Technologies such as spray-applied lining, Fibre-Reinforced Polymer (FRP) insert and MH Cured in Place Pipe (CIPP) lining are being considered as potential options for corrosion control. Construction of the rehabilitation and replacement works is scheduled for Fall, 2019.