

**ENGINEERING SERVICES REPORT NO. Eng- 044/10**  
**PRE-BUDGET APPROVAL – HENDERSON CREEK CULVERT**  
**at NORTH TOWN LINE EAST**  
**February 3, 2010**

Approval Date: February 8, 2009

**Background:**

Through the Biennial Bridge and culvert Inspection Program the Town has been able to attempt to stay on top of replacement and rehabilitation of its bridges and culverts. The Henderson Creek Culvert on North Town Line East has had repairs made to the multi-plate structure several times over the past twelve years. The structure was identified in 2007 as needing to be replaced in less than a year. To that end R. J. Burnside were requested to monitor the structure in 2008 and again in 2009 to ensure that it was still safe to travel over. To that end we have slated the structure for replacement in the 2010 Capital Budget.

The Henderson Creek Culvert at North town Line East (Structure No. 5) is located on a boundary road. The street is the boundary between the Township of Zorra and the Town. After consulting with Zorra I engaged Burnside's to review the hydrology of the existing structure to determine whether or not it was possible to place a liner in the culvert. Burnside's report was submitted to me on December 4, 2009. The report indicated that lining the structure was not hydraulically feasible and that the culvert should be replaced. Burnside's were asked to prepare an estimate for the replacement of the culvert and that estimate was included in the 2010 budget. I have consulted with Aden Corcoran, Zorra's Director of Public Works noting that I intended to ask for pre-budget approval of the project. Aden indicated he would do the same and at the February 2<sup>nd</sup> Council meeting obtained Zorra's approval of the project.

The total estimated cost for the project was \$ 225,000. Zorra has committed it fifty percent share of \$ 112,500.

**Recommendations:**

- 1) That Council approves the replacement of the Henderson Creek Culvert at North Town Line East (Structure 5) at an estimated cost of \$ 225,000.00 and that the Town of Ingersoll share the cost of the replacement with the Township of Zorra on a fifty percent basis. The estimated Capital Budget cost being \$ 112,500.00. Further that Engineering be authorized commence the design and construction for the replacement of the structure with R. J. Burnside & Associates.
- 2) That an agreement be entered into with the Township of Zorra for the cost sharing of the replacement.

Respectfully submitted,

E.R. (Gene) McLaren, C.E.T.  
Director Engineering Services