



## TOWN OF MINTO

DATE: August 15, 2016

REPORT TO: Mayor Bridge and Members of Council

FROM: Mike McIsaac, Roads Foreman

SUBJECT: Structure Repairs and Safety Guiderail Installations

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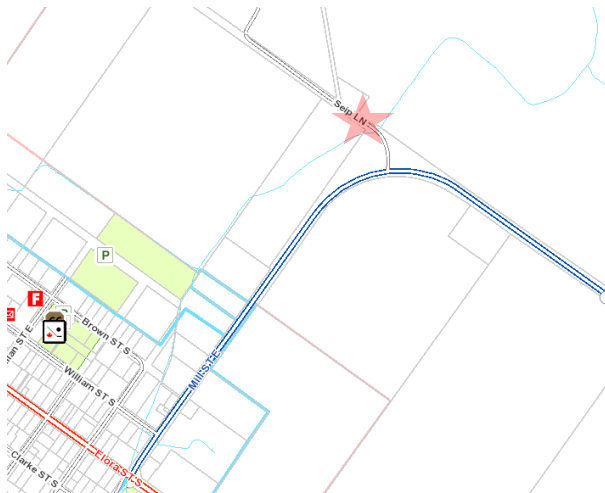
### **STRATEGIC PLAN:**

11.3 Develop a transportation plan that includes a roads and bridges inventory and capital replacement program keeping in mind sustainable funding sources, impact on tax rate, and minimum construction and maintenance standards.

### **BACKGROUND:**

The Town has 51 structures which require biennial inspection by a professional engineer. The latest report in December of 2015 states there are no structures requiring immediate attention. There are seven on the priority replacement list over the next 10 years, starting in year 4. Six of these are being investigated by staff and engineers to optimize funding opportunities as they may arise while ensuring public safety concerns are addressed.

Many of the rural structures inspected do not have a guiderail system in place or the current barrier system no longer meets provincial standards. Over time these need to be corrected to improve public safety as funds are available, or as part of a total reconstruction.



Coon Creek Structure E which is located on Seip Lane just north of Clifford, below, has been identified for replacement in 5 years. Area landowners have expressed concern about lack of guiderails and with reconstruction five years away staff looked at options to address safety in this case. As you can see from the picture the roadway is narrow and there is a small shoulder. A guiderail

would be a big improvement in this area. When the structure is re-built, the guiderail installation can be removed and re-used elsewhere if it does not fit in the final design. The cost to install is \$12,500 based on an estimate provided by Reeves Construction out of Mount Forest.



Drain 86 Structure L located on the 3<sup>rd</sup> Line between Bride Road and School Road 7 requires re-construction within 25 years. As shown in the picture there are no guiderails at



this location and very little shoulder on the road. The concrete spalling along the concrete edge is a cosmetic repair that will prevent deterioration. The addition of a Guiderail system to this structure will protect motorists from the possibility of striking the barrier wall to the right of the picture below otherwise known as a “Deadman Wall.” This structure currently has 25 years left so long as the spalling is addressed in a timely manner. All the repairs and the guiderail increase public safety.



Concrete repairs and supply and install the necessary guiderail system as per the Ontario Provincial Standards is \$39,500 based on an estimate provided by Reeves Construction.

**COMMENTS:**

The combined construction cost for both projects in the Inspection Report was \$74,625, while the estimate provided by Reeves is \$52,000 plus HST. Reeves Construction would fit this installation between construction projects in October which is why their pricing is good. The Town is challenged with the number of rural structures needing this kind of safety repairs and will bring forward creative solutions whenever possible to address some of the more serious safety issues in the short term.

To go to bid on the combined project will require engineered drawings and specifications which will add to the cost. Putting the project out to bid now could result in a poor response during the height of the construction season. Many companies are involved in completing infrastructure work all over Ontario. Triton Engineering has agreed to work with Reeves to ensure the construction work in the bid meets proper standards.

**FINANCIAL CONSIDERATIONS:**

Council approval is needed to sole source this work to Reeves Construction within the \$60,000 budgeted for 2016 under Seip Lane Structure E Capital. With the quotes provided by Reeves both projects can be completed for less than the \$60,000 budgeted just for Seip Lane. With engineering and tender costs there is no guarantee both projects could be completed at that cost.

**RECOMMENDATION:**

That the Council receives the Road Foreman's report regarding Structure Repairs and Guiderail Installations and approves hiring Reeves Construction Limited to supply and install Guiderail to Structure E for \$12,500.00 plus HST and complete concrete repairs and supply and install Guiderail to Structure L for \$39,500.00 plus HST, with both projects to be funded out of the Seip Lane capital allocation in the 2016 budget.

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Mike McIsaac  
Road Foreman