

<b>To:</b>	Warden Halliday and Members of Grey County Council
<b>Committee Date:</b>	March 8, 2018
<b>Subject / Report No:</b>	TR-CW-13-18
<b>Title:</b>	Award of RFT-TS-08-18 Grey Road 10 Structure Replacements 10-590 and 10-900
<b>Prepared by:</b>	Dennis Dalton, Senior Engineering Technologist Sharon Melville, Buyer
<b>Reviewed by:</b>	Pat Hoy, Director of Transportation Services
<b>Lower Tier(s) Affected:</b>	West Grey
<b>Status:</b>	Recommendation adopted by Committee as presented per Resolution CW79-18; Endorsed by County Council March 22, 2018 per Resolution CC34-18;

## Recommendation

1. That Report TR-CW-13-18 regarding tender award recommendations for RFT-TS-08-18 be received and that the tender be awarded to Wayne Schwartz Construction Ltd. for \$727,133.64 excluding taxes; and
2. That a 15% construction contingency be added to the tender price resulting in a revised estimated project cost of \$850,920.87 net HST.

## Executive Summary

The tender for the replacement of structures 10-590 and 10-900 on Grey Road 10 was posted on the Grey County website from January 25, 2018 until February 15, 2018.

It is recommended to award RFT-TS-08-18 to Wayne Schwartz Construction Inc. for the bid amount of \$727,133.64, excluding taxes.

Since the structures are located on the Grey-Bruce County boundary, the project costs will be split 50/50 between Grey County and Bruce County.

The parameters for the tender are as follows:

- Remove two (2) existing concrete culverts
- Install two (2) new concrete box culverts constructed from precast sections
- Close Grey Road 10 to traffic for the duration of the project, (a detour route will be provided).

## Background and Discussion

Two structures crossing Grey Road 10, sharing the same watercourse, approximately 325 m apart, are overdue to be removed and replaced. The watercourse originates on the Bruce County side of Grey Road 10, then flows easterly beneath Grey Road 10 at structure 10-900; then flows parallel to Grey Road 10 for approximately 325 m where it turns westerly to flow under Grey Road 10 again at Structure 10-590.

Three (3) construction options were considered:

1. Realign the watercourse to the west side of the road to eliminate both structure crossings; since the majority of the watercourse is in Bruce County.
2. Remove the concrete box culverts and replace with multiple smaller circular plastic culverts and leave the watercourse as is.
3. Remove and replace both structures with similar concrete structures and leave the watercourse as is.

It was determined that option 3 was the most technically practical for the following reasons:

- High water events of 2017 demonstrated that the existing larger culvert sizing was required to accommodate high water flows.
- Realigning the stream would require Bruce County to purchase property and extensive investigation by the Conservation Authority. This process would take additional time, and given the poor condition of the structures, it was determined that replacement must occur in the 2018 construction season.
- Installing multiple smaller pipes, while less expensive, would not accommodate the water flows as witnessed during high water events of 2017.

Bids received:

#	Name of Bidder	Bid Amount (excl. taxes)
1.	Arnill Construction Limited o/a Seeley and Arnill	\$1,187,823.33
2.	Moorefield Excavating Ltd.	\$859,831.00
3.	South Shore Contracting of Essex County Inc.	\$737,360.00
4.	Ultimate Construction Inc.	\$1,642,727.86
5.	W.G. Kelly Construction	\$1,177,894.00
6.	Wayne Schwartz Construction Ltd.	\$727,133.64

## Legal and Legislated Requirements

None

## Financial and Resource Implications

The funding chart below identifies the total tender costs.

### Project Funding

Item	Excluding HST	Net HST
Approved Project Budget (Grey Road 112)		\$1,200,000.00 (\$600,000.00 - split 50/50 with Bruce County)
Awarded Tender Amount	\$727,133.64	\$739,931.19
Construction Contingency (15%)		\$110,989.68
Total Tender Projected Costs		\$850,920.87 (\$425,460.43 Grey County)
Project Surplus		\$349,079.13 (\$174,539.57 Grey County)

The 15% construction contingency is recommended to compensate for the following:

- Unforeseen challenges encountered during excavation, de-watering, and waterway control.
- Delays caused by inclement weather affecting concrete cure time.
- Repairs to the proposed detour route.

- Extra work charged by the contractor due to the low bid amount.

## Relevant Consultation

Internal (list)

Committee of the Whole for Grey County by way of this report

External (list)

Jerry Haan, Operations Manager, Bruce County

## Appendices and Attachments

Project Location Map

# Project Location Map

