

Minutes Special Meeting

**Civic Centre
Council Lounge**

**August 12, 2019
4:30 pm**

Present: Mayor Darren Canniff (arrived at 3:49), Chairperson Carmen McGregor, Commissioners Marjorie Crew, Trevor Thompson, Steve Pinsonneault, Jamie McGrail, Mark Authier, General Manager Tim Sunderland, Manager Compliance & Monitoring Lilly Snobelen, Facility and Systems Manager Rob Bernardi, CAO Don Shropshire, Area Manager (North/Central) Darren Galbraith

Absent: Commissioner Area Manager (South/Central) Robin Dudley

1. Call To Order

Chairperson Carmen McGregor's called the meeting to order at 3:47 pm.

2. Disclosures of Pecuniary Interest (Direct or Indirect) for Open Session Agenda Items and the General Nature There Of

- none

3. Reports

- a) Tender Award Contract T19-302 Bloomfield Road Storm Sewer and Road Improvements

Municipality of Chatham-Kent
Infrastructure and Engineering Services
Chatham-Kent Public Utilities Commission

To: PUC Chairperson and Commission Members
From: Brendan Falkner, P.Eng
Engineering Technologist
Date: August 1, 2019
Subject: Tender Award: Contract T19-302, Bloomfield Road Storm Sewer and Road Improvements, Community of Chatham

Recommendation

It is recommended that:

1. The tender in the amount of \$2,648,155.00 including HST for the Bloomfield Road Storm Sewer and Road Improvements in the Community of Chatham be awarded to Henry Heyink Construction Ltd.
2. The Chatham-Kent Utilities Commission (CK PUC) Chairperson and General Manager be authorized to sign the necessary agreements.

Background

The Municipality of Chatham-Kent is experiencing operational and condition issues with the storm sewer along Bloomfield Road. The existing storm sewer is under sized, in poor condition and therefore in need of replacement. A new watermain was installed along Bloomfield Road in 2011 and the existing watermain in the roadway was abandoned. The existing storm sewer and abandoned watermain have negatively impacted the road surface. In addition, the Pavement Condition Index (PCI) of Bloomfield Road from Richmond Street to Park Avenue is less than 30.

In March 2019, Golder Associates Ltd. submitted a geotechnical report for Bloomfield Road from Richmond Street to Park Avenue. The recommended method of repair for this stretch of road was either cold-in-place recycling or full depth reconstruction. It was determined that Bloomfield Road will be reconstructed from Richmond Street to the CN Railway due to the required storm sewer replacement. Bloomfield Road from the CN Railway to Oriole Parkway requires a number of repairs and therefore it was determined that full reconstruction would be the most cost effective option. Bloomfield Road from Oriole Parkway to 5th Line is proposed to have cold-in-

place recycling in 2020 (subject to future budget and Council approval). In order to extend the lifecycle of the road and improve the drainage of the road, all curb and catch basins between the CN Railway and Park Avenue will be replaced.

It was determined that the best course of action for the intersection of Bloomfield Road and Richmond Street was full reconstruction. At this time, the underground infrastructure within the intersection will be replaced to reduce the likelihood of future work on the underground assets.

Comments

Bloomfield Road from the CN Tracks to Oriole Parkway will be reconstructed with new asphalt, curb and catch basins. The abandoned watermain has had a negative impact on the road surface in this section and will be removed to improve the overall condition and strength of the road base.

The curb and catch basins along Bloomfield Road from Oriole Parkway to Park Avenue will be replaced in preparation for cold-in-place recycling which is scheduled for 2020 (subject to future budget and Council approval).

A new sidewalk crossing at the CN Tracks will be constructed during this project to connect the sidewalk on either side of the tracks.

Bloomfield Road from Richmond Street to the CN Tracks will be reconstructed with new asphalt, curb and catch basins, including 350 m of new storm sewer. The existing storm sewer is in poor condition and undersized. Each property will have a new storm connection installed.

The intersection of Bloomfield Road and Richmond Street will be reconstructed during this project. The watermain in the intersection is an old cast iron watermain from the 1960's and will be replaced with PVC pipe. In addition, 100 meters of sanitary sewer will be installed at this time along Queen's Line to accommodate future development to the west. The traffic signal will be upgraded to comply with Municipal and Provincial standards at this time as well.

Phase 1 of this project will be all work from the CN Tracks to Park Avenue and will be completed in 2019. Phase 2 of the project will be all work from the CN Tracks to Richmond Street and will be completed in 2020.

The engineering, contract administration and inspection on this project are being carried out by the Chatham-Kent Engineering and Transportation Division.

The Purchasing Officer received and opened tenders for the work on Thursday, July 25, 2019. The results are as follows:

**Contract T19-302
Bloomfield Road Storm Sewer and Road Improvements
Community of Chatham**

Rank	Tenderer	Tender Amount incl. HST
1	Henry Heyink Construction Ltd. Chatham, ON	\$2,648,155.00
2	Clarke Construction Inc. Blenheim, ON	\$2,869,070.00
3	Nevan Construction Inc. Kingsville, ON	\$2,870,053.10 ^A
4	Sterling Ridge Infrastructure Inc. Windsor, ON	Incomplete Bid

^A A mathematical error was corrected but it did not impact the tender outcome but changed the tender ranking.

The Engineering and Transportation Division has reviewed the tenders and found them to be complete in all respects.

It is the recommendation herein that the contract be awarded to Henry Heyink Construction Ltd. who submitted the lowest tender bid

Areas of Strategic Focus and Critical Success Factors

The recommendations in this report support the following areas of strategic focus:

Economic Prosperity:
Chatham-Kent is an innovative and thriving community with a diversified economy

A Healthy and Safe Community:
Chatham-Kent is a healthy and safe community with sustainable population growth

People and Culture:
Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community

Environmental Sustainability:
Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

Financial Sustainability:
The Corporation of the Municipality of Chatham-Kent is financially sustainable

Open, Transparent and Effective Governance:

The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership

Has the potential to support all areas of strategic focus & critical success factors

Neutral issues (does not support negatively or positively)

Consultation

The tenders were opened by the Purchasing Officer and reviewed by the Engineering and Transportation Division.

The General Manager of the Chatham-Kent PUC and the Purchasing Officer were consulted in the preparation of this report.

Financial Implications

This project is being funded through the 2019 Roads Lifecycle, Storm Lifecycle, Sanitary Lifecycle, Water Lifecycle, Sidewalk Lifecycle and Traffic Lifecycle budgets.

The project summary is set out in the following table:

**Contract T19-302
Bloomfield Road Storm Sewer and Road Improvements
Community of Chatham**

	Description	Total
(A) Project Costs	Low Tender, with HST	\$2,648,155.00
	Engineering & Admin, with HST	\$80,000.00
	Less HST Rebate (11.24%)	\$(271,366.92)
	Approval Fees	\$2,300.00
	Project Total	\$2,459,088.08
	Description	Total
(B) Project Funding	2019 Road Lifecycle Budget	\$1,013,144.29
	2019 Storm Lifecycle Budget	\$870,517.18
	2019 Sanitary Lifecycle Budget	\$196,727.05
	2019 Water Lifecycle Budget	\$221,317.93
	2019 Sidewalk Lifecycle Budget	\$73,772.64
	2019 Traffic Lifecycle Budget	\$83,608.99
	Funding Total	\$2,459,088.08

The low tender bid submitted by Henry Heyink Construction Ltd. was within the budget estimate.

Prepared by:

Brendan Falkner, P.Eng.
Engineering Technologist
Engineering and Transportation

Reviewed by:

Chris Thibert, P.Eng.
Director

Reviewed by:

Mark McFadden, P.Eng.
Manager, Infrastructure Services
Engineering and Transportation

Reviewed by:

Tim Sunderland
General Manager

**Moved by Commissioner McGrail and seconded by Commissioner Crew;
“That the Chatham-Kent Public Utilities Commission (CK PUC)**

- 1. The tender in the amount of \$2,648,155.00 including HST for the Bloomfield Road Storm Sewer and Road Improvements in the Community of Chatham be awarded to Henry Heyink Construction Ltd.**
- 2. The Chatham-Kent Utilities Commission (CK PUC) Chairperson and General Manager be authorized to sign the necessary agreements.”**

Motion carried

b) Tender Award T19-272 Chatham WTP Upgrades

Municipality of Chatham-Kent
Chatham-Kent Public Utilities Commission

To: PUC Chairperson and Commission Members
From: David Middleton, P. Eng.
Engineering Technologist
Date: August 2nd, 2019
Subject: Tender Award: T19-272 Chatham WTP Upgrades

Recommendations

It is recommended that:

1. The Tender in the amount of \$3,776,295.94 including HST for the Chatham Water Treatment Plant Upgrades (Contract T19-272) be awarded to the lowest bidder, Kingdom Construction Limited, Ayr, Ontario.
2. The Chatham-Kent Public Utilities Commission (CK PUC) Chairperson and General Manager be authorized to sign the necessary agreement.

Background

Although most jurisdictions in Ontario are experiencing a decline in water demand, the Chatham Water Supply System has experienced an increase in demand due to development of greenhouses in the agricultural lands in this area. In 2017, the maximum day demand was reported to be 50 MLD, which is approximately 85% of the reduced production capacity of the plant of 59 MLD. This demand pressure has created an urgent need to upgrade the existing plant sand filter underdrain systems and filter media which are original from 1971.

Following a condition assessment conducted by Jacobs Engineering (formerly CH2M) in 2017, it was identified that due to poor backwashes, solids are not effectively removed from the existing filters and that the filter media has become clogged with mud balls, thereby reducing their overall capacity. It was recommended that the filter underdrains be replaced with a low profile stainless steel underdrain system which allows for the inclusion of air scoring as part of the backwash process. The inclusion of air scoring requires the installation of a blower system to provide low pressure air to the new underdrains and effectively remove accumulated solids from the filter media. New filter media including sand and granular activate carbon (GAC) will also be installed as the mud balls can not be effectively removed from the existing filter media.

In addition to the filter upgrades, the plant currently operates with four (4) settled water pumps which convey pre-treated water from the upstream Actiflo process to the top of the filters. When the largest pump is out of service the plant can not currently meet the overall plant capacity of 68 MLD. In order to meet current plant capacity requirements and provide additional capacity for future plant upgrades, the CK PUC will replace settled water pump LLPB3 with a new 38 MLD pump. This will allow the plant to operate at its design capacity with one large pump out for service.

Additional upgrades to the plant under this Contract include:

- The installation of a pressure relief valve on the high lift pump discharge header to relieve high pressure from the distribution system which has resulted in watermain breaks and system downtime in the past.
- The installation of an air recirculation system. This will provide conditioned air to the High Lift Pump Room, which is currently inadequately cooled by existing exhaust fans.
- Replacement of the Administration, High Lift Pump and Filter Building modified bitumen roof assembly, which is original to the plant from 1971.
- Miscellaneous electrical upgrades to support the new equipment being installed.

Comments

In accordance with the [Purchasing By-law](#), the project was advertised on the Municipal Website on July 9th, 2019. The Tender closed on August 1st, 2019.

There were 45 registered plan takers who obtained Tender documents from the Chatham-Kent Bids and Tenders website. Seventeen (17) plan takers attended the mandatory pre-bid site meeting held on July 16, 2019. A total of six (6) bids were received and the bids are summarized in the table below. The bids were reviewed for completeness and accuracy by Jacobs (formerly CH2M) and the CK PUC. The total Tender prices include costs for provisional items and contingency allowance.

The Results are as follows:

Project: T19-272 Chatham WTP Upgrades		
Rank	Company Name	Amount (including H.S.T.)
1.	Kingdom Construction Limited	\$3,776,295.94
2.	BGL Contractors Corporation	\$4,065,062.00
3.	¹ Hayman Construction Inc.	\$4,201,679.00
4.	Maple Reinders Constructors Ltd.	\$4,321,346.00
5.	North America Construction (1993) Ltd.	\$4,656,730.00
6.	Facca Inc.	² \$8,095,772.00

Notes:

¹Hayman Construction Inc. neglected to sign and seal their 10% bid bond. This did not affect their overall tender ranking.

²A mathematical error was noted on Facca Inc. total contract price. The revised contract price did not affect the overall tender ranking.

It is the recommendation herein that the Contract be awarded to Kingdom Construction Limited, Ayr, Ontario who submitted the lowest Tender price of \$3,776,295.94 including HST.

Financial Implications

All costs associated with the project will be included in the 2018, 2019 and 2020 Lifecycle Budget.

Prepared by:

Reviewed by:

David Middleton, P. Eng
Engineering Technologist
Chatham-Kent PUC

Darren Galbraith
Area Manager, North Area and Chatham
Water Chatham-Kent PUC

Reviewed by:

Tim Sunderland
General Manager
Chatham-Kent PUC

Attachment(s):
Chatham-Kent Public Utilities Commission – Tender No. T19-272
Chatham WTP Upgrades Tender Evaluation Report by CH2M Hill Canada, Inc

**Moved by Commissioner Thompson and seconded by Commissioner Authier;
“That the Chatham-Kent Public Utilities Commission (CK PUC)**

- 1. The Tender in the amount of \$3,776,295.94 including HST for the Chatham Water Treatment Plant Upgrades (Contract T19-272) be awarded to the lowest bidder, Kingdom Construction Limited, Ayr, Ontario.**
- 2. The Chatham-Kent Public Utilities Commission (CK PUC) Chairperson and General Manager be authorized to sign the necessary agreement.”**

Motion carried

4. New Business

Tim Sunderland provided a verbal report regarding a proposed abandonment of a section of the watermain on Talbot Trail East of Coatsworth Rd.

5. Recess to Closed Session if Necessary

6. Resolution Regular Meeting and Adjournment

That Chatham-Kent Public Utilities Commission adjourn, its next Regular Meeting to be held on Thursday, September 19th, in the PUC Boardroom, and that the PUC Commission authorize itself to meet in closed session on that day to discuss any matters permitted by the Municipal Act.

Moved by Commissioner Thompson and seconded by Commissioner Pinnonneault

“That the Special Meeting be adjourned at 4:02 pm.”

Motion carried