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AUTHORIZATION OF CONSULTING SERVICES WEST RAINBOW CREEK TRUNK SEWER, CITY OF VAUGHAN, PROJECT 77310

The Transportation and Works Committee recommends the adoption of the recommendation contained in the following report, January 21, 2005, from the Commissioner of Transportation and Works:

1. RECOMMENDATION

It is recommended that:

1. Approval be given to increase Totten Sims Hubicki's fees for providing engineering service during the Environmental Assessment, Detailed Design and Contract Administration phases of the West Rainbow Creek Trunk Sewer project by \$236,743.00 from \$212,902.00 to \$449,645.00 excluding GST.

2. PURPOSE

The purpose of this report is to obtain Regional Council approval to increase the purchase order amount for the previously retained consulting engineer.

3. BACKGROUND

The York-Durham Sewage System (YDSS) Master Plan identified the need for this sewer in the City of Vaughan. The intent of this sewer is to replace the existing Rainbow Creek Trunk Sewer, which is nearing its capacity.

The West Rainbow Creek Trunk Sewer will parallel the existing sewer, from just south of the Highway 407 and extend easterly and connect to the existing Woodbridge Trunk Sewer just east of the Humber River, which ultimately discharges at the Humber Pumping Station located on the north side of Steeles Avenue just west of Islington Avenue. A location plan is included (*see Attachment 1*).

3.1 Scope of the Assignment

The project consists of approximately 850 metres of 900 millimetre sanitary sewer.

The scope of this assignment includes complete engineering services throughout the Class Environmental Assessment (Class EA), detailed design and contract administration phases of the project.

3.2 Project Status

3.2.1 Class EA

The West Rainbow Creek Trunk Sewer project was undertaken as a Schedule B project in accordance with the Municipal Engineers Association's Class EA document (June 2000). The consultant has begun preliminary assessments and general data collection.

3.2.2 Detailed Design Phase

This phase has not yet begun.

3.2.3 Part II Order (Bump-Up) Request Denied with Conditions

On October 1, 2004, the Minister of the Environment (MOE) formally notified The Regional Municipality of York (York Region) that they had received a Part II Order on all YDSS projects. Although, the Minister denied the Part II Order for this project, a number of project specific conditions have been imposed and have resulted in significant changes in the scope of works for this project.

The following provides a summary of the conditions specific to this project:

- Comprehensive review of alternative routing options and alternative sewer design and construction techniques.
- Pro-active, strategic, and ongoing stakeholder relationship management.
- Technical assessments sufficient for all permits and approvals.
- Analysis of "cumulative effects" of dewatering combined with other Regional projects.
- Independent peer reviews.
- Technical resource for individual well complainants.
- Additional monitoring and reporting requirements during and after construction.
- Public accessibility of York Region's documents.

4. ANALYSIS AND OPTIONS

The Project Team has been working diligently toward developing an aggressive workplan that satisfies and respects the conditions set forth by the MOE, as well as implements a solution in the most time effective manner.

4.1 Proposed Workplan

Prior to the decision by the MOE, Totten Sims Hubicki (TSH) together with their sub consultants, completed significant environmental investigations for the originally proposed route. Following the decision, the project team has worked together to develop a comprehensive workplan that addressed the conditions set forth for this project in the most time efficient manner.

Highlights from the workplan include:

- Establish expanded study area.
- Consultations with key stakeholders and agencies.
- Gathering of all available data within the expanded study area.
- Assessment of a long list of alternatives.
- Additional geotechnical investigations along alternative routes.
- Additional natural environment inventory for expanded study area.
- Assessment of shortlist of alternatives, including preliminary design and alternative construction methodologies for each alternative.
- Evaluation of alternatives.
- Establish preferred alignment and construction technique.
- Detailed design including detailed environment impact studies for preferred alignment.
- Submit permit applications and document reports.
- Prepare tender package.

Following receipt of the letter from the MOE, Regional staff met TSH representatives to discuss the expectations for this critical project. TSH assembled a partnership to undertake this assignment and address all issues from the additional alternative assessment phase through to construction. TSH is the lead consultant providing overall project management, alternative rough environmental assessment services, detailed design services, field compliance and certification.

The conditions imposed by the MOE stipulated significant consultation requirements with the public and affected stakeholders. The Region recognizes the importance in improved stakeholder relationships and has thereby included a number of enhancements to the standard public consultation process. These requirements have been incorporated into the new TSH workplan.

The October 1, 2004 letter from the MOE stipulated the following condition specific to peer review experts:

The Regional Municipality of York shall ensure that all technical studies prepared in support of this project be independently peer reviewed by appropriate experts, including, but not limited, fishery biologists and hydrogeologists, and the review shall be documented in a report.

The Region sought further clarification on this condition with the MOE and understands that the panel of peer review experts should be primarily based on academia as opposed to additional consultants. This would ensure a truly independent role as the peer review experts with no particular vetted interest in the project. TSH has included this requirement in their overall workplan.

It is recommended that the purchase order to TSH be extended for the remainder of the project in order to maintain the continuity and expertise gained on the project to date.

4.2 Schedule

Current timelines for key milestones for this project are as follows:

- Complete Environmental Assessment November 2005
- Complete detailed design June 2006
- Complete construction of sewer November 2006

5. FINANCIAL IMPLICATIONS

TSH's original assignment was to undertake the Class EA, detailed design and contract administration services for the West Rainbow Creek Trunk Sewer Project at an upset fee of \$212,902.00. Given the need to satisfy the conditions set out in the MOE's letter dated October 1, 2004 prior to proceeding with the detailed design phase, we recommend that authorization be given to retain TSH and its team to complete the alternative route assessment, environmental investigations, detailed design, permitting, approvals and contract administration services at a cost of \$449,645.00 excluding GST. Staff has reviewed the extra costs and concur they are reasonable. Sufficient funds are available in the proposed 2005 budget.

6. LOCAL MUNICIPAL IMPACT

This sewer will be constructed in the City of Vaughan. It is required to ensure the integrity of the sewer collection system and accommodate growth within the Woodbridge Community of the City of Vaughan.

7. CONCLUSION

The Project Team is committed to an aggressive schedule. However, in order to accomplish this, approval to proceed with the procurement of additional engineering and peer review services is necessary.

The Senior Management Group has reviewed this report.

(The attachment referred to in this clause was included in the agenda for the February 2, 2005 Committee meeting.)