

11

CONSULTANT SELECTION FOR ENGINEERING SERVICES YDSS MAINTENANCE HOLE 53-05 REHABILITATION TOWN OF RICHMOND HILL

The Transportation and Works Committee recommends the adoption of the recommendations contained in the following report, June 1, 2004, from the Commissioner of Transportation and Works:

1. RECOMMENDATIONS

It is recommended that:

1. The consulting engineering firm of Totten Sims Hubicki Associates be engaged to undertake the investigation, design and engineering services during construction for YDSS Maintenance Hole 53-05 Rehabilitation as outlined in this report at an upset limit cost of \$341,732.28 including GST.
2. The Commissioner of Transportation and Works be authorized to execute the agreement to retain the services of the consulting firm.

2. PURPOSE

The purpose of this report is to recommend retention of consultants to carry out the investigation, design and engineering services during construction for Maintenance Hole 53-05 Rehabilitation in the Town of Richmond Hill.

3. BACKGROUND

Maintenance Hole (MH) 53-05 was constructed in 1981. It is located immediately east of Yonge Street at North Lake Road. It is part of the YDSS trunk sewer system. Sewage from Oak Ridges in the Town of Richmond Hill, the Town of Aurora and the Town of Newmarket are conveyed through this maintenance hole.

Recent inspections have identified deficiencies in the maintenance hole. If left unattended, continued degradation could lead to impacts on the structural integrity of the maintenance hole with potential collapse of the road structure above.

On average, approximately 500 litres per second of sewage flow through this maintenance hole. It is approximately 14 metres deep. When the sewage drops this distance, gases are released within the maintenance hole which deteriorate concrete and metal, and leave the air unbreathable. Gratings and ladders within the maintenance hole have deteriorated to the point where they are no longer safe. The concrete surface within

the maintenance hole is starting to deteriorate and is slippery to the point where footing is unreliable.

Regional staff have been unable to access all of the connected sanitary sewers due to the hostile environment within the maintenance hole. However, it is reasonable to assume that the conditions present within the maintenance hole have also impacted the connected sewers.

The scope of the assignment includes:

- Assess the condition of the maintenance hole and connected sewers.
- Prepare a detailed design for the recommended repairs.
- Provide contract administration and full time inspection services through construction.

4. ANALYSIS AND OPTIONS

Requests for Proposals (RFP) were issued on February 17, 2004. Submissions were received on March 2, 2004. A Post Closing Addendum was issued on April 14, 2004 to expand the scope of required services to include the review, design and construction of the connected sewers. Proposals for the additional scope of work were received on April 28, 2004 and technical evaluations were completed on May 7, 2004. Regional staff evaluated the technical proposals based on the following criteria:

1. Experience and team expertise.
2. Understanding of the assignment and submission.
3. Methodology.
4. Project timing and schedule.

Evaluation was based on an overall score of 100 points, with 80 points assigned for technical and 20 points for financial. Proposals were required to achieve a minimum technical score of 60 out of 80 to be eligible for consideration.

Three submissions were received for the work from the following firms:

1. Totten Sims Hubicki Associates.
2. MacViro Consultants Inc.
3. R.V. Anderson Associates Ltd.

All three proposals met the minimum technical score requirement and their financial proposals were opened after the technical evaluation was complete. The prices were factored into the proposal evaluation using standard procedures, as summarized in Table 1.

Table 1
Consultant Proposal Evaluation Summary (P-04-19)

Firm	Technical Score (Out of 80)	Upset Fee (including GST)	Financial Score (Out of 20)	Total Score (Out of 100)
Totten Sims Hubicki Associates	64.7	\$ 341,732.28	20.0	84.7
MacViro Consultants Inc.	61.2	\$392,330.85	17.4	78.6
R.V. Anderson Associates Limited	60.2	\$408,156.85	16.7	76.9

Totten Sims Hubicki Associates was ranked highest on the technical portion of the proposal. Their proposal clearly demonstrated their experience and knowledge. It also proposed a clear method for evaluating the maintenance hole and sewers and provided some anticipated remedial methods based on their experience. Totten Sims Hubicki also received the highest score on the financial proposals.

Totten Sims Hubicki Associates attained the highest total score along with the lowest submitted cost, and is recommended as the preferred consultant.

The condition of the sewers and extent of design and construction required cannot be determined until after the initial investigation is complete. It is expected that the estimates provided by the consultant for this scope of work will be adjusted if required after the initial investigation. Any change to the work will be made through a Council approved process.

5. FINANCIAL IMPLICATIONS

The upset limit fee for this project is \$341,732.28 (including GST). Funding for the rehabilitation project will be 100% from Water and Wastewater Capital Budget (Rate funded).

Sufficient funds for these projects are available in the 2004 Capital Budget.

6. LOCAL MUNICIPAL IMPACT

The maintenance hole is located in the Oak Ridges Community of Richmond Hill. It conveys sewage from the Towns of Richmond Hill, Aurora and Newmarket. Depending on the recommended method for repair, there may be disruptions to traffic on North Lake Road and/or Yonge Street.

7. CONCLUSION

Regional staff recommend Totten Sims Hubicki Associates as the preferred consulting firm for the Maintenance Hole 53-05 Rehabilitation project. The proposal represented the best overall value to the Region and demonstrated that Totten Sims Hubicki Associates has qualified and knowledgeable personnel to complete the assignment.

The Senior Management Group has reviewed this report.