

ITEM	7
MANAGER'S REPORT NO.	6
COUNCIL MEETING	93/01/25

TO: CITY MANAGER

DATE: 1993 01 19

FROM: DIRECTOR ENGINEERING

FILE: 70-04-08

SUBJECT: 1993 LOCAL IMPROVEMENT STREET PROGRAM (LIP):
CONSTRUCTION SUPERVISION

PURPOSE: To seek Council approval to award an engineering agreement for construction supervision of the current Local Improvement Street Program.

RECOMMENDATION:

1. THAT R.F. Binnie & Associates Ltd. be retained to provide engineering consulting services for construction supervision of the Local Improvement Street Program.

REPORT

PREAMBLE

Council, at its meeting of 1992 November 23, approved proceeding with a local improvement street works program at various locations throughout the City.

Implementation of this program is scheduled for the 1993 construction season (spring/summer/fall). A professional engineering consultant is therefore required to provide services of construction supervision. More specifically, the consulting services we require include contract preparation and administration, survey for construction layout, resident field inspection, and general engineering supervision.

Engineering proposals for these projects were invited from three (3) consulting engineering firms, each of which has had extensive experience in supervising works construction calling for expertise in this particular discipline of professional civil engineering.

ENGINEERING PROPOSALS

The three companies invited to propose on the project are all well-established firms having engineers and technicians on staff who are highly qualified in this work. The companies were:

- R.F. Binnie & Associates Ltd.
- Associated Engineering (B.C.) Ltd.
- Vector Engineering Services Ltd.

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The consultants were asked to provide details of the experience and expertise of each of their respective firms and assigned staff related to this type of project, together with details of their intended method of approach to the project. They were also requested to submit a detailed work schedule and a schedule of "per diem" rates for their services.

PROPOSAL REVIEW

The submitted proposals were reviewed by staff based on pre-determined factors such as: The consultant's company and assigned staff experience and expertise, proven ability based upon the consultant's previous work history, list of references, understanding of the nature of the work, proposed methodology, innovation, total cost implications, scheduling, and public relations. Each of the consultants is considered competent to do the work and the rating represented an appraisal of the City's particular needs in this specific local improvement program.

CONSULTANT SELECTION

The evaluation established R.F. Binnie & Associates Ltd. as the leading candidate who would most closely meet the needs of the City. R.F. Binnie & Associates have extensive experience in local improvement type works in Burnaby as well as surrounding municipalities. Their staff demonstrated a complete understanding of the project and concern for the sensitive nature of this particular type of work. They have also undertaken the detailed design phase of this program.

The consultants did not submit a fixed maximum fee, primarily because it is unrealistic to do so given the number of variables with potential to impact on their fees. The preferred method of remuneration would be on a per diem basis for actual hours worked. Your Director Engineering concurs that this method of payment is the most suitable for work of this nature.

As mentioned, total cost implications was a factor in the evaluation process. R.F. Binnie & Associates Ltd. submitted a proposal which was competitive in terms of per diem rates and was also the most attractive to the City in terms of total cost effectiveness. R.F. Binnie submitted a fee estimate which at \$70,000 was the lowest of the three proposals which ranged from \$70,000-\$133,000. These fee estimates provide for the base service and do not reflect unanticipated variables such as weather delays, scheduling extensions, overtime, etc. Engineering fees for construction supervision for previous works of a similar nature have equated to approximately 8% of total construction cost. Based on the anticipated \$1.4 million construction cost, the estimated value of this engineering assignment would be \$112,000.

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It is therefore recommended that the firm of R.F. Binnie & Associates Ltd. be retained to provide engineering consultant services for construction supervision of the current Local Improvement Paving Program with an estimated budget of \$112,000. The Purchasing Agent concurs with this recommendation.

The consultant and the City will enter into an engineering agreement which includes the City's Terms of Reference and the consultant's engineering proposal as integral parts.

AGREEMENT AWARD AND FINANCING

The City Clerk has submitted a Certificate of Sufficiency to Council detailing the proposed program. The program, as adopted, has an estimated total construction value of \$1.4 million.

It is in the City's best interest to tender the construction works as soon as possible to take advantage of:

- a competitive bidding market
- a full construction season

Award of an engineering agreement at this juncture would permit the consultant to commence work on preparation of the tender documents and place us in a position to take advantage of optimum timing. Local improvement costs will be funded by construction bylaws previously approved by Council.

It is therefore recommended that an engineering agreement be awarded for construction supervision of the roadworks as described, with the cost to be financed from the appropriate construction bylaws.

W.C. 
DIRECTOR ENGINEERING

BCD:jb

cc: Director Finance
Director Admin. & Community Services
Purchasing Agent
City Clerk

