

ITEM 15  
MANAGER'S REPORT NO. 27  
COUNCIL MEETING 90/04/09

RE: 1990 LOCAL IMPROVEMENT STREET PROGRAM (LIP):  
CONSTRUCTION SUPERVISION

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Engineering be adopted.

\* \* \* \* \*

TO: MUNICIPAL MANAGER 1990 APRIL 03

FROM: DIRECTOR ENGINEERING

SUBJECT: 1990 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.

RECOMMENDATIONS:

1. THAT R.F. Binnie & Associates Ltd. be retained to provide engineering consulting services for construction supervision of the 1988 Local Improvement Street Program and 16th Avenue from 2nd Street to 4th Street.

REPORT

PREAMBLE

Council at its meeting of 1989 December 18 approved proceeding with approximately \$2.7 million of local improvement street works throughout the Municipality. Council subsequently at its meeting of 1990 February 05 directed the Municipal Clerk to initiate the program as approved.

Implementation of this program is scheduled for the 1990 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.

Appearing elsewhere on this agenda is a report requesting that a bylaw be brought forward to construct 16th Avenue from 2nd Street to 4th Street. We also require engineering consultancy services of construction supervision for this project.

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.

ITEM	15
MANAGER'S REPORT NO.	27
COUNCIL MEETING	90/04/09

### 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.

157

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

Proposal submissions were received from R.F. Binnie & Associates Ltd. and Vector Engineering Services Ltd. Associated Engineering (B.C.) Ltd. declined the invitation, with regrets, due to prior work commitments which would have limited their ability to provide acceptable service to the Municipality.

The submitted proposals were reviewed by a selection committee comprised of senior members of the Engineering Department. This review process included assessment of the proposals based on predetermined factors such as: the consultant's company and assigned staff experience and expertise, proven ability based upon the consultant's previous work history in Burnaby (either for the Corporation or otherwise), list of references, understanding of the nature of the work, proposed methodology, innovation, total cost implications, scheduling, and public relations.

Individual assessment by members of the selection committee of each of the factors on a scored points basis provided a quantitative method for the consultant evaluation process. It should be noted that the consultants are considered competent to do the work and the quantitative rating represented an appraisal of the Corporation's particular needs in this specific local improvement program.

### CONSULTANT SELECTION

The evaluation rating method established R.F. Binnie & Associates Ltd. as the leading candidate who would most closely meet the needs of the Corporation. 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.

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 more attractive to the Corporation in terms of total cost effectiveness.

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 and 16th Avenue from 2nd to 4th Streets. The Purchasing Agent concurs with this recommendation.

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

#### AGREEMENT AWARD AND FINANCING

The Municipal Clerk has initiated the LIP program and the deadline for petitions against the work expired 1990 March 30. The Municipal Clerk will be submitting a Certificate of Sufficiency to Council upon completion of his review however preliminary indications are that 3 of 18 projects have sufficient objections to defeat the works. The surviving projects have an estimated total construction value of \$1.5 million. The 16th Avenue project is estimated at \$350,000. Thus the total construction costs of works encompassed by this report is \$1.85 million.

Engineering fees for construction supervision for previous works of a similar nature have equated to approximately 9% of total construction cost. Therefore the estimated value of the recommended assignment is 9% of \$1.85 million = \$166,500.

It is in the Corporation's 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 ultimately be funded by construction bylaws raised for that purpose and the engineering fees for 16th Avenue will be charged against the full appropriation for the construction of 16th Avenue. However, it will be necessary to interim finance the consultant expenditures until such time as the construction bylaws are in place.

It is therefore recommended that an engineering agreement be awarded for construction supervision of the roadworks as described, with the cost to be interim financed from the 1990 Capital Contingency as provided in the 1990 Provisional Operating Budget. The Contingency Fund would be reimbursed following Council approval of the construction bylaws.

  
DIRECTOR ENGINEERING

WCS/BCD:je

cc: Director Finance  
Director Administrative & Community Services  
Purchasing Agent  
Municipal Clerk

