

Re: ENGINEERING SERVICES FOR DESIGN OF MOSCROP/PERCIVAL  
CONNECTOR BETWEEN CANADA WAY AND WAYBURNE DRIVE

Following is a report from the Municipal Engineer on proposals for professional engineering services relative to the Moscrop/Percival connector.

RECOMMENDATION:

1. THAT Robert F. Binnie Ltd. be retained to provide engineering services as outlined in the Municipal Engineer's letter dated September 20, 1976 and in the reply from the firm dated October 1, 1976.

\* \* \* \* \*

TO: MUNICIPAL MANAGER 7 OCTOBER, 1976  
FROM: MUNICIPAL ENGINEER  
RE: ENGINEERING SERVICES FOR DESIGN OF MOSCROP/PERCIVAL  
CONNECTOR BETWEEN CANADA WAY AND WAYBURNE DRIVE

Our current C.I.P. budget contains a provision for the design of the Moscrop/Percival connector. The portion between Canada Way and Gilpin was designed a number of years ago and is still valid.

We invited proposals for engineering services as per the Municipal Engineer's letter dated September 20, 1976, copy attached, from the following three firms:

1. Robert F. Binnie Ltd.
2. Vector Engineering Services Ltd.
3. McElhanney Surveying & Engineering Ltd.

All three firms responded and a summary of their proposals is as follows:

Robert F. Binnie Ltd.

This proposal isolates soils investigation, storm sewer design and any reference to protection of an existing G.V.S. & D.D. sanitary sewer which lies within the proposed road allowance from the general terms of reference given by the Municipal Engineer's letter. His upset fee excluding disbursements for all work except that noted above is \$8,430. Mr. Binnie has verbally advised this Department that a realist estimate of design costs for the storm sewer and consultation with the G.V.S. & D.D., regarding protection of their sanitary sewer, would be \$5,000. which would give an aggregate fee of \$13,430. excluding disbursements and soils investigation. This consultant will use Golder Brawner & Associates Ltd. as sub-consultants for soils investigations.

Vector Engineering Services Ltd.

This proposal gives an upset fee of \$17,300. for all items of work as outlined in the Municipal Engineer's terms of reference excluding only disbursements and soils investigation. They would use R.P. Shaflik Engineering Ltd. as a sub-consultant for street lighting design.

(cont'd)

ITEM	5
MANAGER'S REPORT NO.	64
COUNCIL MEETING	Oct. 12/76

McElhanney Surveying & Engineering Ltd.

This proposal indicates that special considerations must be given because of the obvious poor ground conditions over which this proposed alignment falls. They estimate the cost of engineering design services, in accordance with our terms of reference, to be \$25,000. excluding disbursements. It does, however, include soils investigations because they have geotechnical experience on staff.

Although this work is somewhat specialized due to the nature of the soils conditions and the existence of a sanitary sewer which will require protection during construction of the road it is considered, after careful review, that the proposal from Robert F. Binnie Ltd. is the most attractive in meeting the design concerns of this project at a reasonable fee.

RECOMMENDATION:

THAT Robert F. Binnie Ltd. be retained to provide engineering services as outlined in the Municipal Engineer's letter dated September 20, 1976 and as described in their proposal dated October 1, 1976.

VNW:wlh  
Attach.

*for*   
MUNICIPAL ENGINEER

ITEM	5
MANAGER'S REPORT NO.	64
COUNCIL MEETING	Oct. 12/76



## THE CORPORATION OF THE DISTRICT OF BURNABY

MUNICIPAL HALL  
4949 CANADA WAY  
BURNABY B.C. V5G 1M2

The Office of the Engineer

20 September, 1976

R. F. Binnie Ltd.  
650 Clyde Avenue  
West Vancouver, B.C.  
V7T 1E2

Dear Sirs:

Re: Engineering Services for Design of Moscrop/Percival  
Connector Between Wayburne and Canada Way

The relocation and upgrading of the aforementioned major road is proposed in the next few years and accordingly we are initiating the design in this year's program to ensure its completion.

We therefore invite you to submit a proposal for your engineering services for the field survey, drafting, design and quantity take-off for this project.

The work shall be performed in accordance with our current standards and as detailed on the attached terms of reference.

Your proposal should outline the manner of payment and whether or not the suggested deadline is realistic.

We would appreciate receiving your proposal on or before October 1, 1976.

Yours truly,

E. E. Olson, P. Eng.  
MUNICIPAL ENGINEER

VNW:wlh  
Attch.  
cc: ( ) Design Engineer

by: V. N. Wiebe, P. Eng.  
DESIGN ENGINEER

## TERMS OF REFERENCE

ENGINEERING DESIGN OF MOSCROP/PERCIVAL  
CONNECTOR FROM WAYBURN TO CANADA WAY

---

The Consulting Engineer shall complete all field survey (except survey control), drafting and office work to design the Moscrop/Percival road improvements in detail from Wayburne to Canada Way. (Note: Percival between Canada Way and Gilpin has been designed under No. 710064).

- (a) Design a 60 foot side pavement (two 23 foot roadways separated by a 14 foot median) with curbs and gutters; a 24 foot frontage road (Gilpin to Cedarwood) with curb and gutter; four foot wide separated sidewalks on both sides and boulevard and median tree planting within an 86 foot street allowance. Property acquisitions to be acquired by Burnaby. Alignment sketch is attached.
- (b) Design ornamental street lighting.
- (c) Design miscellaneous sections of storm sewer and/or culverts where necessary to complete the drainage system.
- (d) Street gradients not to exceed 8 percent.
- (e) Survey control, bench marks and any legal survey necessary to prepare property acquisition drawings to be done by the Corporation of Burnaby.
- (f) Schedule of Quantities for all items of work.
- (g) All designs to be in accordance with current Corporation of Burnaby specifications and good engineering procedures.
- (h) An Engineering Agreement will be entered into covering this work.
- (i) Completion date for overall design to be 31 March/77.