

Re: Engineering Services for the Design of Kincaid Diversion

Following is a Report from the Municipal Engineer regarding engineering services for the design of Kincaid Diversion.

RECOMMENDATION:

THAT an agreement for engineering services as stipulated in the Engineer's letter dated September 24, 1974 be entered into with Vector Engineering Services Ltd. for the design of the Kincaid Diversion for an upset fee (excluding disbursements) in the amount of \$1,595.00 with fees to be based on the Scale of Minimum Fees recommended by the Association of Professional Engineers of B.C.

4 October, 1974

Mr. M. J. Shelley
MUNICIPAL MANAGER

Dear Sir:

Subject: Engineering Services for Design of Kincaid Diversion

The current Expansion Program for the Burnaby General requires the design and construction of the Kincaid Diversion as soon as possible in order that completion precede the completion of the parking structure. Construction of the parking structure has already begun and because of the possibility of using excavated material for road base construction (reference to Item 16, Manager's Report No. 59, Council meeting 9 September, 1974) it is essential that a road design be completed as soon as possible.

By our letter dated 24 September, 1974, attachment "A", proposals for engineering services as set out in that letter were invited and have now been received from three consultants specializing in this type of work, namely, R.F. Binnie Ltd., Vector Engineering Services Ltd., and McElhanney Surveying and Engineering Ltd.

The proposals, attachments "B", "C" and "D", offer to undertake the work for upset limits to their fees, as calculated by the Scale of Minimum Fees recommended by the Association of Professional Engineers of B.C. (excluding disbursements), as follows:

R.F. Binnie Ltd.	\$3,890.
McElhanney Surveying and Engineering Ltd.	\$3,200.
Vector Engineering Services Ltd.	\$1,595.

(cont'd)

Mr. M. J. Shelley
MUNICIPAL MANAGER

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4 October, 1974

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The proposal by Vector Engineering Services Ltd. represents approximately one percent of the estimated construction costs and funds for this design have been allocated in the current 1974 Budget (Engineering 22-01-16).

RECOMMENDATION

That an agreement for engineering services as stipulated in our letter dated 24 September, 1974, be entered into with Vector Engineering Services Ltd. for the design of the Kincaid Diversion for the upset fee (excluding disbursements) as contained in their letter of proposal dated 3 October, 1974. Fees to be based on the Scale of Minimum Fees recommended by the Association of Professional Engineers of B.C.

Respectfully submitted,


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

VNW:cmg

Attch.

c.c. ()Municipal Treasurer

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THE CORPORATION OF THE DISTRICT OF BURNABY

MUNICIPAL HALL
4949 CANADA WAY,
BURNABY 2, B. C.

TELEPHONE 299-7211

September 24, 1974

The Office of the Engineer

ATTACHMENT "A"

Vector Engineering Services Ltd.
3375 Norland Avenue
Burnaby 2, B. C.

Dear Sirs:

Re: Engineering Services for Kincaid Diversion
from east of Ingleton to Carleton Extension

In conjunction with the Expansion Program for the Burnaby General Hospital improved access, in the form of the Kincaid Diversion, is proposed.

We invite you to submit a proposal for your engineering services for field survey, drafting, design and quantity take-off for this project. Your proposal should indicate an upset limit to your fee.

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

Due to the state of construction on site and the intent of using on-site excavation for roadway fill the deadline for completion of these designs shall be October 31, 1974. We anticipate that consultants for this work will be appointed by the 8th of October, 1974.

Please submit your proposals by not later than October 3, 1974.

Yours truly,

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

VNW:wlh

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

Att.
cc: () Design Engineer



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TERMS OF REFERENCE

ENGINEERING DESIGN OF KINCAID DIVERSION
FROM EAST OF INGLETON TO CARLETON EXTENSION

The Consulting Engineer shall complete all field survey, drafting and office work to design the Kincaid Diversion in detail from a point approximately 250 feet east of Ingleton Avenue to the proposed intersection with the Carleton Avenue extension.

- (a) Design for a 36 foot wide pavement with curbs and gutters; five foot wide separated sidewalks on both sides; underground power (if source from southerly direction); ornamental street lighting and boulevard tree planting.
- (b) Design to include the closure of MacDonald Avenue south of Kincaid.
- (c) Storm sewer(s) and general drainage.
- (d) Fills sloped maximum 2:1 with grade width of 60 feet (minimum) at top. (Desirable to retain natural tree growth on north side of roadway).
- (e) Desirable gradients suggested not to exceed plus or minus 9.5% unless otherwise agreed to by the Design Engineer.
- (f) Pavement and base design including soil study if any unstable ground is anticipated.
- (g) Road and Sewer design to be in accordance with Corporation specifications and Engineering procedures.
- (h) Legal survey work to be done by others.
- (i) Take-off quantities as per attached Appendix V.
- (j) An Engineering Agreement will be entered into covering this work.
- (k) Design completion date to be October 31, 1974.

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"B"

Vector engineering services ltd.

3375 NORLAND AVENUE - BURNABY 2, B.C.

TELEPHONE 298-2333

RECEIVED IN
ENGINEERING DEPT.

OCT 03 1974

REFER TO	NOTED	DATE
VW		

Oct. 3, 1974

The Corporation of Burnaby
4949 Canada Way
Burnaby, B. C.

Attention: Mr. V. Wiebe

Dear Sir:

Re: Kincaid Diversion
Our File No. 47-22

We are pleased to submit our proposal for engineering services for field survey, design, and quantity take-off for the design of Kincaid street as described in your letter dated Sept. 24, 1974.

Our fee would be in accordance with Section III - Schedule of Fees as published by the Association of Professional Engineers of B. C. and using Scale I - Payroll Cost plus 125%.

Our upset limit for this work is \$1,595.00

Our upset fee does not include any allowance for disbursements as covered by Section V of the Scale of Minimum Fees and these would be charged as an expense additional to the maximum fee. The use of survey vans would be considered a disbursement. Soils study, if necessary, would be a disbursement. We understand that Burnaby will provide:

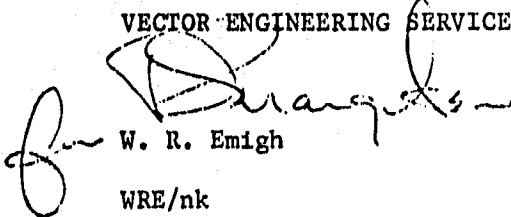
1. Road centreline grade at the east end of this project.
2. Survey control information.

We have not included any allowance for obtaining field information a second time should construction in the area interfere with our survey.

I trust that our proposal will meet with your approval.

Yours very truly,

VECTOR ENGINEERING SERVICES LTD.


W. R. Emigh

WRE/nk

Robert F. Binnie Ltd.

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650 CLYDE AVENUE/WEST VANCOUVER/BRITISH COLUMBIA V7T 1E2
TELEPHONE 926-7734

RFB:eb P. Eng.

"C"

October 3, 1974

The Corporation of the
District of Burnaby
4949 Canada Way
BURNABY, B. C.

Attention: Mr. V. N. Wiebe, P. Eng.,
Design Engineer.

Dear Sirs:

Re: Engineering Services for Kincaid Diversion
from East of Ingleton to Carleton Extension.

Thank you for the opportunity of submitting a proposal
for the above work.

We are pleased to submit a maximum limit to our fees,
for performing all the work outlined, in the amount of Three
Thousand, Eight Hundred and Ninety Dollars (\$3,890.00).

We understand that the boulevard tree planting does
not involve any landscape architecture work.

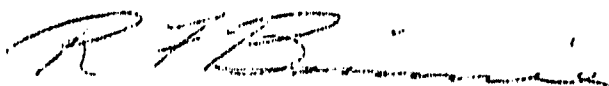
At this time we do not anticipate any unstable soils
conditions.

Our proposal is based on the following provisions:

1. The following would constitute grounds for an extension
of time:
 - (a) Any delays in receipt of required information from
the Corporation of the District of Burnaby.
 - (b) Any delay in the award of the contract and possible
start of the field work beyond October 8, 1974.
 - (c) Delays occasioned by snow, force majeure, or other
conditions beyond our control.
2. Fees to be based on "Outline of Services and Scale of
Minimum Fees to be Charged for General Engineering
Projects" published by the Consulting Engineers'
Division of the Association of Professional Engineers
of British Columbia, dated May, 1972.

Yours very truly,

ROBERT F. BINNIE LTD.



R. F. Binnie, P. Eng.

RFB:eb

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"D"



McELHANNEY SURVEYING & ENGINEERING LTD.
7832 - 120th STREET, SURREY, B. C., CANADA V3W 3N2 • 596-0391 • ZENITH 6201

2 October 1974
File: P 310

Corporation of the District of Burnaby
Municipal Hall
4949 - Canada Way
Burnaby, British Columbia
V5G 1M2

ATTENTION: Mr. V. Wiebe, P. Eng.

Dear Sir:

Kincaid Diversion

In reply to your letter of September 24th, 1974, we confirm that we have capacity to complete the project discussed within three weeks of the date of award.

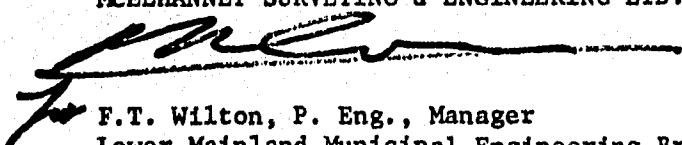
We would propose an upset fee of \$3,200.00 being made up of electrical engineering, civil design and all work specified on the terms of reference except that if a specialist soils consultant is required, we would propose to charge this direct to Burnaby at cost. Also should negotiation, discussions and co-ordination meetings be required with Hospital authorities, architects, etc., this would be additional to the above.

Kindly advise us to complete as soon as your decision is available.

We appreciate the opportunity of presenting this proposal and look forward to working on the project.

Yours very truly,

McELHANNEY SURVEYING & ENGINEERING LTD.


F.T. Wilton, P. Eng., Manager
Lower Mainland Municipal Engineering Branch

FTW:ap