

THE CORPORATION OF THE DISTRICT OF BURNABY

9 October 1964.

REPORT NO. 64, 1964.

His Worship, the Reeve,
and Members of the Council.

Gentlemen:

Your Manager reports as follows:

1. Re: Mr. G. A. Sutherland -
Resignation from the Burnaby Parks
and Recreation Commission.

Mr. G. A. Sutherland has submitted his resignation from the Parks and Recreation Commission. The letter of resignation was addressed to the Chairman of the Parks and Recreation Commission and has been turned over to the Municipal Clerk for presentation to Council and to become part of the Clerk's Records.

Article 4 of By-law #3926 reads:

"Each member of the Commission shall reside in the Municipality and be an owner-elect on the list of electors for the year in which he is appointed and for the immediately preceding year."

Article 6 of By-law #3926 reads:

"The Municipal Council, upon a vacancy arising from any cause other than the expiration of a member's term of office, shall forthwith appoint a new member who shall serve for the unexpired portion of the term vacated."

Mr. Sutherland was first appointed to the Parks and Recreation Commission in January 1962 and was re-appointed for a further two-year term in 1964. His present term would expire in January, 1966.

2. Re: Special Municipal Advisory Committee - Canada Pension Plan.

The Council's resolution to the U.B.C.M. recommending that a special committee be appointed to review the Municipal Superannuation Plan and its relationship to the Canada Pension Plan was adopted unanimously. The Committee is to be composed of representatives from the U.B.C.M. Municipal Officers' Association and employee organizations.

Mr. E. A. Fountain has been appointed to the Committee by the Municipal Officers' Association.

It is recommended that Mr. Fountain be authorized to act on the Special Municipal Advisory Committee being established by the U.B.C.M.

3. Re: Separation Trust Fund.

The agreement between the Civic Union and the Corporation provides that the Canada Permanent Trust Company (formerly Canada Permanent Toronto General Trust Company) be retained to administer and maintain the individual accounts for the Fund.

An agreement between the Corporation and the Trust Company has been negotiated which provides for the administration of the Fund and the maintenance of individual accounts. The costs of the Trust Company service will be assessed against the individual

(.....2)

(Item 3....re Separation Trust Fund....continued)

employee.

It is recommended that the Reeve and Clerk be authorized to sign the agreement on behalf of the Corporation.

4. Re: Alpha Avenue -
Lougheed Highway to S.P.L. Lot 22, D. L. 124.

The following information is supplied in answer to a question raised in Council.

A cost estimate for the provision of curb and gutter and 44 feet of asphalt pavement is:

Concrete curbs and gutter	-	\$10,700.
Grade preparation & Asphalt	-	17,300.
Storm drainage	-	<u>25,000.</u>
		<u>\$53,000.</u>

It would also be desirable, if this road improvement work be carried out, to first instal dry sanitary sewers to obviate early disruption of the finished product. The estimated cost of sanitary sewers is \$12,000.00.

5. Re: Policing of Municipalities
- Rate of Payment.

The Assistant Commissioner Commanding "E" Division, R.C.M.P. advises:

"As you are aware, all municipalities are required to pay from 1 June 1964 to 31 May 1965, 50 per cent of our per capita cost for the year ended 31 March 1964 for each of the first five men under contract and 75 per cent for the sixth and each additional member.

Based on a forecast of expenditures as at 31 July 1964 the per capita cost for the fiscal year ending 31 March 1965 is estimated to be \$8,819.00 and providing the present formula and division of costs, namely 50 and 75 per cent remains in effect, municipalities will be required to pay from 1 June 1965 the amount of \$4,409. per man per annum for each of the first five men under contract and \$6,614. for the sixth and each additional member.

I have been informed that the Minister of Justice has invited the Attorneys General of the eight provinces, with which we now have provincial police agreements, to a conference to be held later this year to discuss terms of future agreements. It is likely that the agenda will include questions of policy relating to policing of municipalities by the RCMP.

I regret that I am not in a position at this time to let you know if there will be any change in the present rate charged to municipalities, namely 50 and 75 per cent of our per capita cost, in any renewal contracts which may be entered into on 1 June 1965, nor if the present formula for determining the per capita cost will be altered.

The estimated cost for all municipalities mentioned above for the period commencing 1 June 1965 is the amount to be charged providing the present division of cost remains the same."

Normally the cost information would be brought forward in conjunction with budget consideration.

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(Item 5...re Policing of Municipalities....continued)

This particular advice, however, goes beyond the usual information so is being immediately brought to the attention of the Council, with particular reference to Paragraph 3 of the advice.

6. Re: Tenders for the Supply and Delivery of Water Distribution Pipe.

An advertized tender call was made for the supply and delivery of 6", 8" and 10" Water Pipe and six tenders were received. The quantities listed were:

35,000	lineal feet of 6" diameter
25,000	" " " 8" diameter
16,000	" " " 10" "

Tenders were opened by the Purchasing Agent in the presence of Mr. N. Goode, Mr. R. Constable and representatives of the firms bidding. A tabulation of the bids received is submitted.

The specifications of the tender call provided for the "Satisfactory Alternative" basis for bidding to permit the greatest freedom to bidders and the greatest selection to this Corporation.

There are two basic types of Water Pipe, asbestos cement and cast iron and either type is accepted under the tender terms as a Satisfactory Alternative.

To evaluate the tenders it is necessary to take into consideration not only the Unit Price tendered but also such important features as length of pipe sections, jointing, bedding, handling, et cetera. This evaluation has been done by the Engineering Department and a copy of this report is appended for the information of Council.

This low tender was submitted by Ironco Products Ltd. for Eternit Asbestos Cement Pipe manufactured in Belgium. This tender was rejected by the Engineer because of the small difference in price between this tender and that of Canadian Johns-Manville for Asbestos Cement Pipe manufactured in Canada. Burnaby has had an unfortunate experience with "off-shore" pipe which was attributed largely to the excessive handling of such pipe. Compensation for the situation was difficult to achieve and was long drawn-out. The price of "off-shore" pipe submitted does not justify any possible repetition of the previous experience.

Under most favourable calculations the resultant difference in initial cost is approximately \$30,000. in the favour of Asbestos Cement Pipe.

The Engineer reports that he has been unable to determine any basis for not taking advantage of the saving indicated by purchasing Asbestos Cement Pipe and so recommends.

Your Municipal Manager concurs and it is recommended that the tender of Canadian Johns Manville Ltd. for Asbestos Cement Pipe at unit prices specified in their bid be accepted. The value of the bid calculated on listed quantities is \$151,705.00.

7. Re: Regent Trunk Sewer.

The Regent Trunk Sewer was constructed primarily at this time to provide public sanitary sewer service to the B. C. Institute of Technology. The Government made a contribution of \$35,000. toward the cost of construction.

A portion of the Trunk was the responsibility of the Greater Vancouver Sewerage and Drainage District and from Royal Oak Avenue west it was the responsibility of the Corporation of Burnaby. Design and construction was carried out by Municipal forces of the Municipal portion.

Very severe peat conditions were encountered which necessitated a design of reinforced concrete beams on pile caps to support the pipe. Construction was completed under severe weather and soil conditions.

Shortly thereafter the system failed and normal clearing procedures did not open the sewer. The pipe was then exposed and it was found that the pipe had failed as a result of failure of the precast concrete beam.

A. B. Sanderson and Company Limited, Consulting Engineers, were then called in:

- (a) to investigate, establish and report on the loads which the pipe support system could be subjected over areas of peat.
- (b) to investigate and recommend suitable methods of replacing damaged sections.
- (c) to recommend remedial measures to prevent similar failure occurring in undamaged section of trunk sewer in peat areas.

A. B. Sanderson & Co. Ltd. have now completed their Report. The Consultant's Report on Design conditions and Remedial Measures is submitted herewith.

As indicated in the Report the designer erred in his allowance of shear strength required in the beams and in his assessment of the unit weight of material which increased from 66 lbs. per cu. ft. in its natural state to 86 lbs. per cu. ft. after it had been handled and replaced in the trench. There was also an excess of cover over the calculated cover, used in certain places.

The Consultant recommends the relaying of approximately 330 feet of 18" diameter pipe on piles using the same basic dimension of beam but with increased shearing steel therein; and reducing the backfill on top of all the old beams to 6 feet; and maintaining the backfill on the new pile section to 7 feet.

The estimated cost of carrying out this work is \$16,000.

The Engineer's Department has always maintained a system of double-checking on design wherever feasible. The title block which is printed on Engineering Drawings provides for the initialling by a checker. Unfortunately, due to the pressure of work at hand at that particular time there was no other Engineer available for an item-by-item check of the design of the beam.

Since this incident checking procedures have been tightened up but with the multitude of figures produced in the design of municipal facilities such as Roads, Sewers, Water, and Sidewalks, 100% checking of all items is prohibitive with staff available. As much checking as possible is done with the understanding that the people carrying out responsible calculations cannot be checked in every respect in every instance, and they must be dependent in great degree upon their own accuracy.

This incident also points up that when problems of special design occur the Municipality in the future should call upon the services of a specialized Consultant.

(Item 7.....re Regent Trunk Sewer...continued)

It should be recorded that the Consultant verifies the principle of precasting beams for placing on piles to lay sewers in peat.

It is recommended that Council authorize the carrying out of the remedial measures proposed by A. B. Sanderson & Co. Ltd. at an estimated cost of \$16,000.

Service to the B. C. Institute of Technology is being and will be continued during reconstruction.

8. Re: Portion of B. C. Hydro and Power Authority Right-of-Way.

A portion of the B. C. Hydro and Power Authority right-of-way is used by the Corporation for a road between Cassie Avenue and Willingdon Avenue.

A lease agreement has been negotiated with the Hydro Authority to lease that portion of the right-of-way used for a road for \$5.00 (five dollars) per annum for a period of 5 years as from July 1st, 1964.

It is recommended that the Reeve and Clerk be authorized to sign the lease agreement on behalf of the Corporation.

9. Re: Acquisition of Easement - Easterly 7.5 feet of Lot 67 and
North-westerly 7.5 feet of Lot 66 of S.D.
of S.D. of Lots "A" and "B" D1D.L.25, N.W.D.

An easement is required for drainage purposes, in order to finalize a subdivision, over the easterly 7.5 feet of Lot 67 and the north-westerly 7.5 feet of Lot 66, as shown on a plan of subdivision of Lots "A" and "B" D.L.25, N.W.D. prepared by A.W. Hunter, B. C. L.S., dated 3rd July 1964, from Noort Bros. Construction, 2278 Westminster Highway, New Westminster, B. C. The property on which the easements are required is located on the 15th Avenue cul-de-sac east of 1st Street. There is no consideration payable by the Corporation.

It is recommended that authority be granted to acquire the above easements and that the Reeve and Clerk be authorized to execute the documents on behalf of the Corporation.

10. Re: Estimates.

Submitted herewith is the Municipal Treasurer's report covering Special Estimates of Work in the total amount of \$11,400.00.

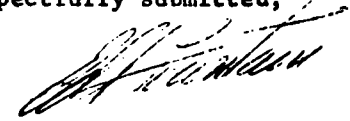
It is recommended that the estimates be approved as submitted.

11. Re: Street Lights.

Submitted herewith is the Municipal Engineer's report covering suggested street light installations.

It is recommended the installations suggested be approved.

Respectfully submitted,



E. A. Fountain,
EXECUTIVE ASSISTANT
TO MUNICIPAL MANAGER.

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SUPPLEMENTARY TO
REPORT NO. 64,1964,
MUNICIPAL MANAGER
13 October 1964.

12. Re: Acquisition of Easements.

Easements are required in connection with the undermentioned Sewer Projects as follows:

(a) South Slope Sanitary Sewer Project - Phase 4.

Owner - B. C. Hydro and Power Authority, 970 Burrard Street, Vancouver.
Property - ptn. outlined in red on plan filed in L.R.O. under #26740, of
Lots "A" and "B" of Lot 44, Block 2, D. L. 95, Group 1, Plan 2703, NWD.
Location of easement - South-east corner of Griffiths Avenue and Byrne
Road.
Consideration - \$175.00 plus restoration of the easement area. The easement
area contains 2,858 square feet.

(b) Gilley-Walker Sewer Project #3/4.

Owner - Frank Cooper and Jack Cooper, 5633 Kingsway, Burnaby, and
Willard Cooper, 5582 Forglan Drive, Burnaby.
Property - Portion of Lot 2, D. L. 94, Group 1, Plan 440, except part on
Plan with By-law filed 30078, New Westminster District.
Location of easement - 5633 Kingsway.
Consideration - \$1.00 plus restoration of the easement area.

It is recommended that authority be granted to acquire the above easements and that the Reeve and Clerk be authorized to execute the documents on behalf of the Corporation.

Respectfully submitted,

E. A. Fountain,
EXECUTIVE ASSISTANT
TO MUNICIPAL MANAGER.

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