

ITEM 6
MANAGER'S REPORT NO. 67
COUNCIL MEETING 1983 11 07

RE: ROBERT BURNABY CREEK
PROPOSED PIPING OF A PORTION OF WATERCOURSE
(4th ST. AND ELWELL ST.)

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Planning & Building Inspection be adopted.

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TO: MUNICIPAL MANAGER 1983 NOVEMBER 02

FROM: DIRECTOR, PLANNING & BUILDING INSPECTION.

RE: ROBERT BURNABY CREEK
PROPOSED PIPING OF A PORTION OF WATERCOURSE (4TH ST. & ELWELL ST.)

RECOMMENDATION:

1. THAT Council authorize the enclosure and piping of a 300 foot section of Robert Burnaby Creek subject to the conditions outlined in this report.

SUMMARY:

In order to prevent further erosion of the ravine banks caused by the rapid fall of the creek, it has been requested that the existing storm sewer pipe be extended into Robert Burnaby Creek ravine. Council approval is necessary for the proposed piping of an approximately 300 foot section of the creek.

REPORT

BACKGROUND:

We received a request from the Recreation & Cultural Services Department to extend the existing 24" storm sewer pipe an additional 300 feet further into Robert Burnaby Creek ravine (where it enters the ravine at Elwell and Fourth Streets as shown on the attached sketch).

Apparently, when this area of the park was developed some twenty years ago, the existing parking lot and immediate east side of the ravine was filled with graded material and stumps from the development of the park site. This has continued to cause alarm through natural settling and decaying of this material which creates underground caverns that collapse and require re-filling.

Toward the end of the proposed piped area is a steep cliff approximately 30 to 40 feet in height. This hazard would be eliminated by the piping. The west side borders a road allowance (4th Street and Elwell) and it is this side that continues, on a regular basis in wet weather, to break off and slide into the ravine and creek taking with it Alder, Cedar and Vine Maple trees.

These blockages of the creek increase erosion into the bank and eventually cause more slides.

The installation of this pipe and two dropped manholes at 100 foot intervals would eliminate all these hazards. The area will be left with a natural swale when completed.

The Recreation & Cultural Services Department have applied to the Provincial Water Management Board for approval and have also met, on site, with Mr. John VanHove, Habitat Protection Technician with the Fish and Wildlife Management Department. They have no objection to the culverting of this portion of the creek and have provided some guidelines to follow.

EXISTING SITUATION:

Upon receipt of this request, Planning sought comments from the Environmental Health and Engineering Department.

The Chief Public Health Inspector reported that given the guidelines specified by the Provincial Fish and Wildlife Department, he had no objections to the proposal.

The Director Engineering reported that he had no objections to the proposed piping provided the grade was in excess of 3% and the design incorporated energy dissipation devices.

This information was conveyed to the Recreation & Cultural Services Department and we added that we would have no objections provided that the following criteria were met:

1. Selective fill material is used to ensure that a similar situation of settling and decaying of substandard material does not occur in this steeply sloping section.
2. A minimum amount of disruption occurs to the surrounding trees and vegetation, particularly to the west, during the filling and piping process. These areas should be adequately protected.
3. The fill area is properly restored (i.e. treed and grassed). Some terracing may be required due to the very steep terrain.
4. A dissipater is installed at the end of the new pipe that will discharge into the remaining open section of the creek.

We have received a written concurrence from the Recreation & Cultural Services Department to the above conditions.

An estimated amount of \$11,000 has been allocated from the Parks 1983 Capital Budget (Maintenance and Energy Improvements) for this work.

The Parks and Recreation Commission approved the foregoing recommendations, funds and source of funds, at their meeting on 1983 November 02.

A. L. Parr,
DIRECTOR PLANNING &
BUILDING INSPECTION.

CW:mdw
Att.

C.C. Director Recreation & Cultural Services
Director Engineering
Chief Public Health Inspector

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