

ITEM	7
MANAGER'S REPORT NO.	25
COUNCIL MEETING	Apr. 20/76

Re: STAFF ATTENDANCE AT THE SEMINAR ON URBAN CONTROL SURVEY DESIGN
TORONTO, ONTARIO - APRIL 26-30, 1976

Following is a request from the Municipal Engineer for authority to have the Supervisor of Surveys attend a seminar on Urban Control Survey Design.

The Corporation is investing a considerable amount of money in the new computerized mapping program in cooperation with B.C. Hydro and B.C. Telephone. It is felt that this seminar for Mr. Berting, who directs the survey crews which will provide much of the basic data for this system, will substantially contribute to its success. It should also be noted that Burnaby, through our B.C. Land Surveyor Articled Pupil program, trains future Legal Surveyors. The knowledge gained by Mr. Berting will be passed on to current and future pupils as part of our commitment, as an employer in the community, to contribute to technical and professional skills training.

RECOMMENDATIONS:

1. THAT Mr. B. Berting, Supervisor of Surveys, be authorized to attend the seminar on Urban Control Survey Design in Toronto from April 26 to April 30, 1975, inclusive; and
2. THAT the cost be charged to account number 22-09-03.

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14 April, 1976

TO: MUNICIPAL MANAGER
FROM: MUNICIPAL ENGINEER

SUBJECT: STAFF ATTENDANCE AT SEMINAR ON URBAN CONTROL SURVEY DESIGN

Burnaby is currently engaged on two programs involving survey control. The first of these is the new mapping program; the second is the "integrated survey" program to establish a system of integrated monuments of known position on Provincial coordinates.

In the case of the new mapping, Burnaby Engineering Department Survey personnel supply both horizontal and vertical data for points appearing in air-photos; this data is used to control map preparation done from the air-photos.

In the case of the "integrated survey" program we choose the sites for, then construct, survey monuments that serve as the basis for the integrated survey grid that is Province-wide. The frame-work is then surveyed by Provincial Government surveyors and we then survey in secondary loops, which provide the necessary density of monuments to allow use of the system for all properties in an area. We supply all vertical values (elevations) for the monuments. The above work is now done using electronic distancing equipment and other modern equipment. The data gathered is then processed on electronic computers. It is most important that we be aware of the latest trends, know the latest methods and understand the computer adjustments to survey control networks.

In order to meet the increasing need for knowledge about control network design, survey, and adjustment, the Humber College of Applied Arts and Technology, Toronto, Ontario, is running a one week long seminar entitled "Urban Control Survey Design." The seminar is for the benefit of "those who are involved with control surveys, engineering surveys on urban control or other types of network."

It is noted that one of the three main lecturers is Mr. Gary Kiratine, P. Eng., O.L.S., former mapping administrator for Metropolitan Toronto. Inasmuch as Toronto has an excellent modern survey control system, it would be most useful to learn from his experience.

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A second lecturer is with the Geodetic Survey of Canada, the organization that sets policy for nationwide systems, and which does the primary control work. The third lecturer is the Chief Surveyor for Metro Toronto (Roads), who has recent experience in using integrated coordinates for road design purposes.

Burnaby's new mapping program is the leader in B.C. and one of the most modern in North America. It is important that we ensure that the survey control on which it is based uses the most modern equipment and in the most efficient manner.

Benefits from having an integrated survey network in the Municipality extend to all of its inhabitants inasmuch as any future survey work required by any citizens is made considerably more economic through having such a system instituted. The survey control networks being established now will serve Burnaby for the next hundred years or more; the better these are designed the better they will serve our residents.

It is recommended that Mr. B. Berting, Supervisor of Surveys in the Engineering Department, be authorized to attend the seminar on Urban Control Survey Design to be given at the Humber College of Arts and Technology, Toronto, Ontario, for the five days from 26 April to 30 April, 1976, inclusive. Inasmuch as the seminar is primarily for the purpose of training, it is recommended that the estimated cost of \$997 be charged to the provision that has been made in the budget for the operating performance of the mapping function in 1976, account number 22-09-03.

RECOMMENDATION:

THAT approval be given for Mr. B. Berting, Supervisor of Surveys, to attend the seminar on Urban Control Survey Design in Toronto from 26 April to 30 April, 1976, inclusive.


MUNICIPAL ENGINEER

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