

ITEM	15
MANAGER'S REPORT NO.	44
COUNCIL MEETING	1980 06 23

RE: WATER BOOSTER PUMPING STATION - BURNABY MOUNTAIN

Following is a report from the Municipal Engineer regarding a water booster pumping station on Burnaby Mountain.

RECOMMENDATION:

1. THAT the recommendations of the Municipal Engineer be adopted.

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TO: MUNICIPAL MANAGER 80 06 18
FROM: MUNICIPAL ENGINEER
SUBJECT: WATER BOOSTER PUMPING STATION - BURNABY MOUNTAIN

RECOMMENDATIONS:

1. THAT an Engineering Agreement be entered into with Phoenix Engineering Ltd. as confirmation of the Engineer's direction to design the water booster pumping station in the vicinity of Curtis Street and Burnwood Drive at an estimated cost of \$12,400, and,
2. THAT arrangements be made with the developer and his contractor for the purchase and installation of the booster station in conjunction with the servicing work on Subdivision #93/79, and,
3. THAT a further report be provided to Council indicating total costs of the station when they are known.

REPORT

Lying below the Conservation Area on Burnaby Mountain, east of Burnwood Drive, and north of Aubrey Street is a triangular segment of Burnaby Mountain comprised of private property, Corporation property, and road allowances where "normal" water pressures in the water utility's mains is inadequate for proper servicing of the area (see attached sketch; this is the area lying to the northeast of the heavy dashed line).

Subdivision Reference #93/79 is the first stage of development east of the Burnwood Collector road requiring a few of its lots to be provided with "boosted" water pressure (see attached sketch).

(cont'd)

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For the reasons that:

- (1) there is no feasible method of each stage of development providing its own booster pumping station, and,
- (2) the water utility would certainly not wish to see the creation of a multiplicity of pumping stations where one would do the job, and,
- (3) experience shows that the interests of the Corporation's water utility is best served if the utility itself arranged for design and construction of pumping stations because of their inherent intricacies,

your Municipal Engineer arranged for Phoenix Engineering Services Ltd. to conduct the required work to design the booster pumping station while being engaged in performing the engineering design work for Subdivision Reference #93/79. Because of the need to integrate the water works requirements of the area, it would not be at all feasible to have another firm do the pumping station design. Phoenix Engineering Ltd. agreed to do the work for an estimated cost of \$12,400, which is considered to be reasonable.

For precisely the same reasons given above for the engineering design work, so should the actual purchase and installation of the station be done by the developer, by means of his contractor, while he is engaged in servicing the subdivision. In this way, integration, timing, and progress of the work is in the hands of the developer, who is the party most vitally affected by these factors at present while at the same time the Corporation is involved to protect the long term interests of its water utility.

The water utility has an obligation to provide adequate water to some existing houses as well as another existing long-established customer, the Trans Mountain Tank Farm at the east end of Aubrey Street. The old pumping station serving Trans Mountain is located on a road allowance which the Corporation wishes to utilize for development purposes; this is a further involvement of the Corporation.

It is not yet known what the water utility's cost of purchase and installation of the booster station will be but it can probably be provided for the amount approved in the C.I.P. Budget under Code 20-02 of \$77,500. When these costs are known, the Council will be advised by means of a further report.

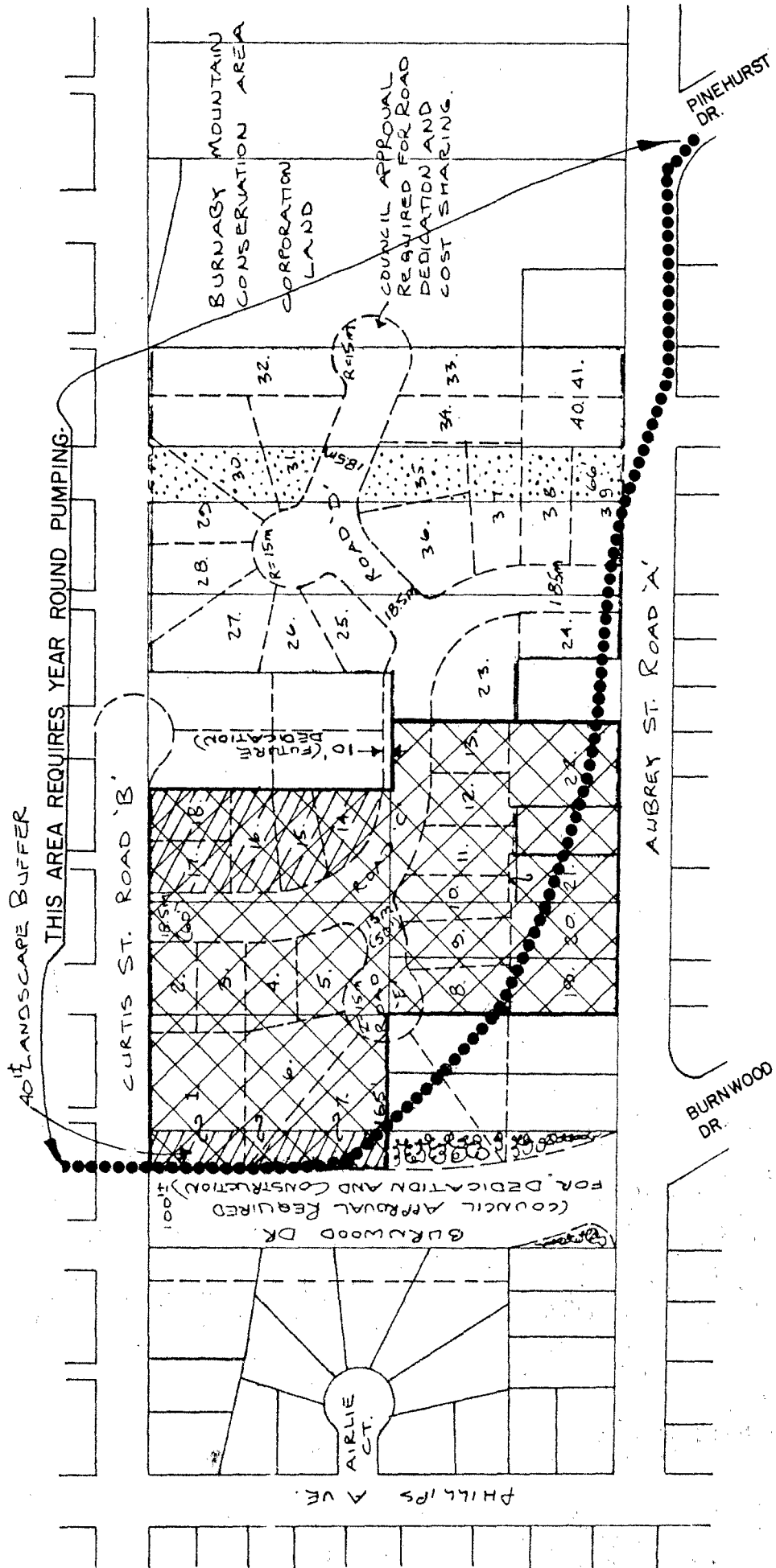

MUNICIPAL ENGINEER

EEO/ch
Att.
c.c. () Director of Planning



S.D. 93/79

D.L. 138



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WATER PRESSURE ZONES ON BURNABY MOUNTAIN

