

NO: R043

COUNCIL DATE: March 7, 2022

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **February 24, 2022**

FROM: **General Manager, Engineering**

FILE: **1218-018/21**

SUBJECT: **Construction of Fleetwood Reservoir Water Main**

RECOMMENDATION

The Engineering Department recommends that Council:

1. Receive this report for information; and
2. Authorize the reimbursement to Metro Vancouver for the cost to construct a City-owned water main connected to the newly constructed Fleetwood Reservoir in the amount up to \$930,000.00 (including GST and contingency).

INTENT

The purpose of this report is to obtain Council approval to reimburse Metro Vancouver for the cost to construct a City-owned water main connected to the newly constructed Fleetwood Reservoir within Meagan Anne MacDougall Park, located at 9008 Fleetwood Way (the "Site"), as illustrated on the map attached as Appendix "I".

BACKGROUND

In order to meet the increasing water demand in North Surrey, Metro Vancouver is constructing the new Fleetwood Reservoir at the Site with construction taking place from mid-2022 to mid-2024. Following the completion of the Fleetwood Reservoir, the City planned to construct a 750mm diameter feeder water main connecting the new Fleetwood Reservoir to an existing water main on 154 Street and 90 Avenue to ensure adequate water supply and water pressure within the Whalley and Fleetwood neighborhoods.

DISCUSSION

Metro Vancouver included the City's 750mm feeder water main as an optional item within their procurement documents for the Fleetwood Reservoir construction. Staff have reviewed the tendered cost for the completion of the water main and determined that it would be more economical for the City to have the construction of the water main completed by Metro Vancouver, on the City's behalf, while Metro Vancouver's contractor is mobilized on the Site.

The following considerations support the decision to have the water main constructed by Metro Vancouver:

- The water main is to be connected to Fleetwood Reservoir, and it is practical for Metro Vancouver’s contractor to construct the water main while Fleetwood Reservoir excavation is underway;
- The City benefits from cost efficiency for insurance, bonding, mobilization, demobilization, environmental, excavation and restoration as these costs are included in Metro Vancouver’s work;
- Deferring water main construction will result in increased costs due to inflation;
- Constructing the water main as a separate project in the future will:
 - Disturb Meagan Anne MacDougall Park landscaping after Fleetwood Reservoir construction is complete;
 - Require additional tree removals; and,
 - Cause additional disruption to the public and park use.

FUNDING

Metro Vancouver will be reimbursed in installments that are based upon completion of the City’s portion of the work. Funding for this project is available in the approved 2022 Water Utility Budget.

SUSTAINABILITY CONSIDERATIONS

The work supports the objectives of the City’s Sustainability Charter 2.0. In particular, the project relates to the Sustainability Charter 2.0 theme of Infrastructure. Specifically, the works supports the following Desired Outcomes (“DOs”):

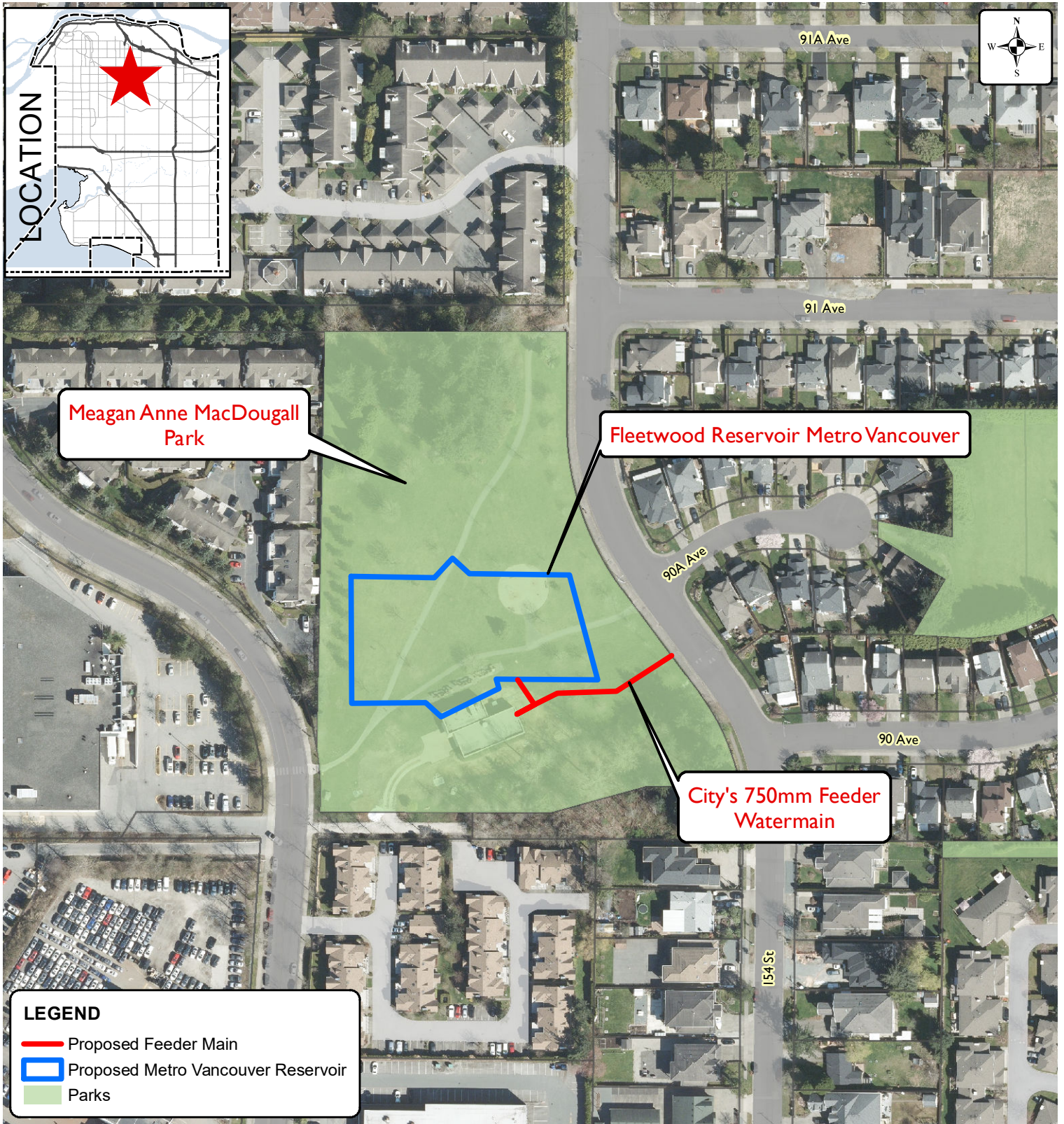
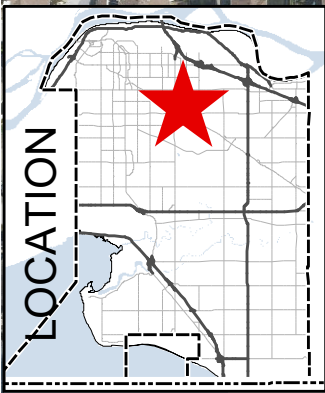
- Infrastructure DO 1: City facilities and infrastructure are well managed, adaptable, and long lasting, and are effectively integrated into regional systems; and
- Infrastructure DO2: Infrastructure systems provide safe, reliable, and affordable services.

CONCLUSION




The Engineering Department recommends that Council authorize the reimbursement to Metro Vancouver in the amount up to \$930,000.00 (including GST and contingency) for the construction of a new City feeder water main connected to the newly constructed Fleetwood Reservoir within Meagan Anne MacDougall Park.

Scott Neuman, P.Eng.
General Manager, Engineering


Appendix “I” – Map of Location



LEGEND

-  Proposed Feeder Main
-  Proposed Metro Vancouver Reservoir
-  Parks

Produced by GIS Section: 23-Feb-2022, P205803

Scale: 1:2,000 



**Project No. W-19018
Fleetwood Reservoir Water Feeder Main**

**ENGINEERING
DEPARTMENT**

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.