

# Expanding the Underground Stormwater Storage Tank in Memorial Park

May 26, 2022



# Basement Flooding Protection Program

- This project is part of the City's Basement Flooding Protection Program to help reduce the risk of future basement flooding in the Midtown area.
- On August 19, 2005, the City experienced widespread basement flooding with over 4,200 complaints, which resulted in a City-wide assessment of basement flooding.
- City Council approved a strategy to develop comprehensive plans in 67 areas across the city to help reduce the risk of future basement flooding.



# About the Project

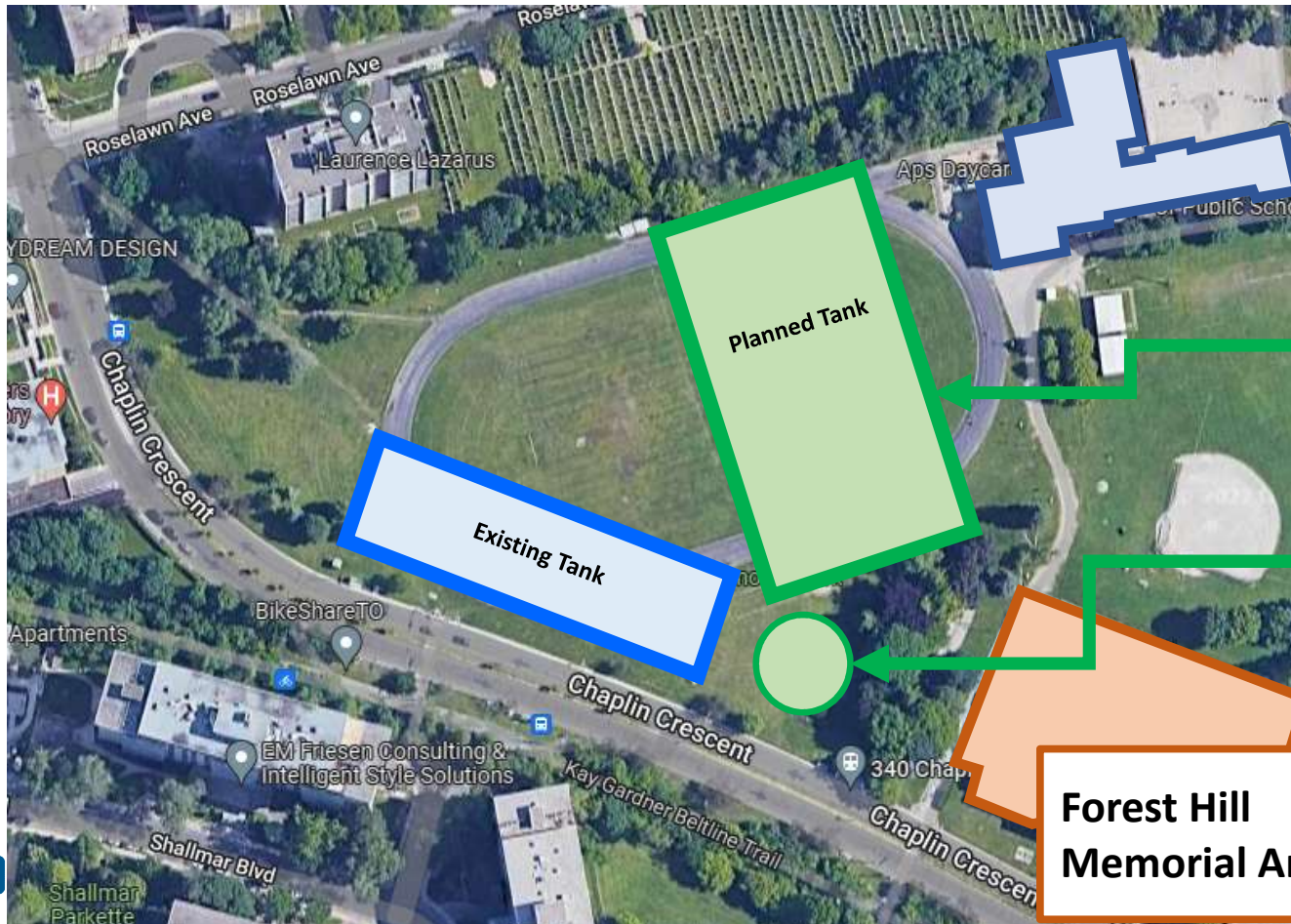
- In 2014, a study was completed to address flooding in the area between Bathurst and Dufferin Streets and from Highway 401 to Roselawn Avenue.
- The study recommended upgrades, including additional storm water storage at Memorial Park. The City of Toronto is planning to expand the storage in Memorial Park by four times to 36,600 m<sup>3</sup>.
- Expansion is required to prevent flooding of the existing storm sewers in the area.
- The original tank was constructed in 1982 and has a capacity of 9,600 m<sup>3</sup>.
- Municipal and Federal investment of approximately \$270M.



# Details about the Planned Storage Tank

- The tank will temporarily store excess water from storm events until it is safe to discharge the flows to the downstream sewer.
- A new pumping station will control the volume of discharge in order to avoid overfilling and flooding of the downstream sewers.
- 97 m long, 56 m wide, 10-12 m tall (underground)
- Roof located 1.5 m below the ground
- State of the art cleaning of the storage tank

# Planned Stormwater Tank Location



**North Preparatory Junior Public School**

**New Underground Storm Water Storage Tank**

**New Pumping Station, with above ground structure**

**Forest Hill Memorial Arena**

# Planned Surface Building for Pumping Station



Rendering of planned surface building at Memorial Park

# Anticipated Project Timeline

- Anticipated design completion: Early 2023
- Anticipated start of construction: Fall 2023\*
- Expected duration of construction: 3-4 years in Memorial Park\*

*\*Construction timelines are subject to change*

# Construction Details

- The tank will be constructed within a large open excavation
- The walls of the excavation and the adjacent buildings will be monitored for movement
- Noise and vibration will be monitored continuously



Example of tank excavation



# Construction Safety Measures

- All work areas will be enclosed and secured with solid wood fencing
- All entry points into work areas will have lockable gates
- Temporary walkways will be provided around work areas



Example of solid wood construction fencing with decorative design

# Current Plans for Restoring the Site

- Athletic running track will be restored
- Sports playing fields will be restored
- Other restoration details are being developed with the input of the TDSB and CreateTO





# Contact

**Rachele G. Joseph, Senior Project Manager**

Basement Flooding Protection Program

Engineering & Construction Services, City of Toronto

[MidtownStormRelief@toronto.ca](mailto:MidtownStormRelief@toronto.ca)



**Thank you!**