



# **Markham Village Flood Control Implementation Project Phase 1A**

## **Community Information Meeting**

Markham Village Community Centre

Date: February 26, 2024



# Purpose

- To advise Phase 1A area residents and businesses of 2024- 2026 construction activities as part of Markham Village flood control implementation;
- To promote the City's ongoing Private Plumbing Protection Rebate Program.



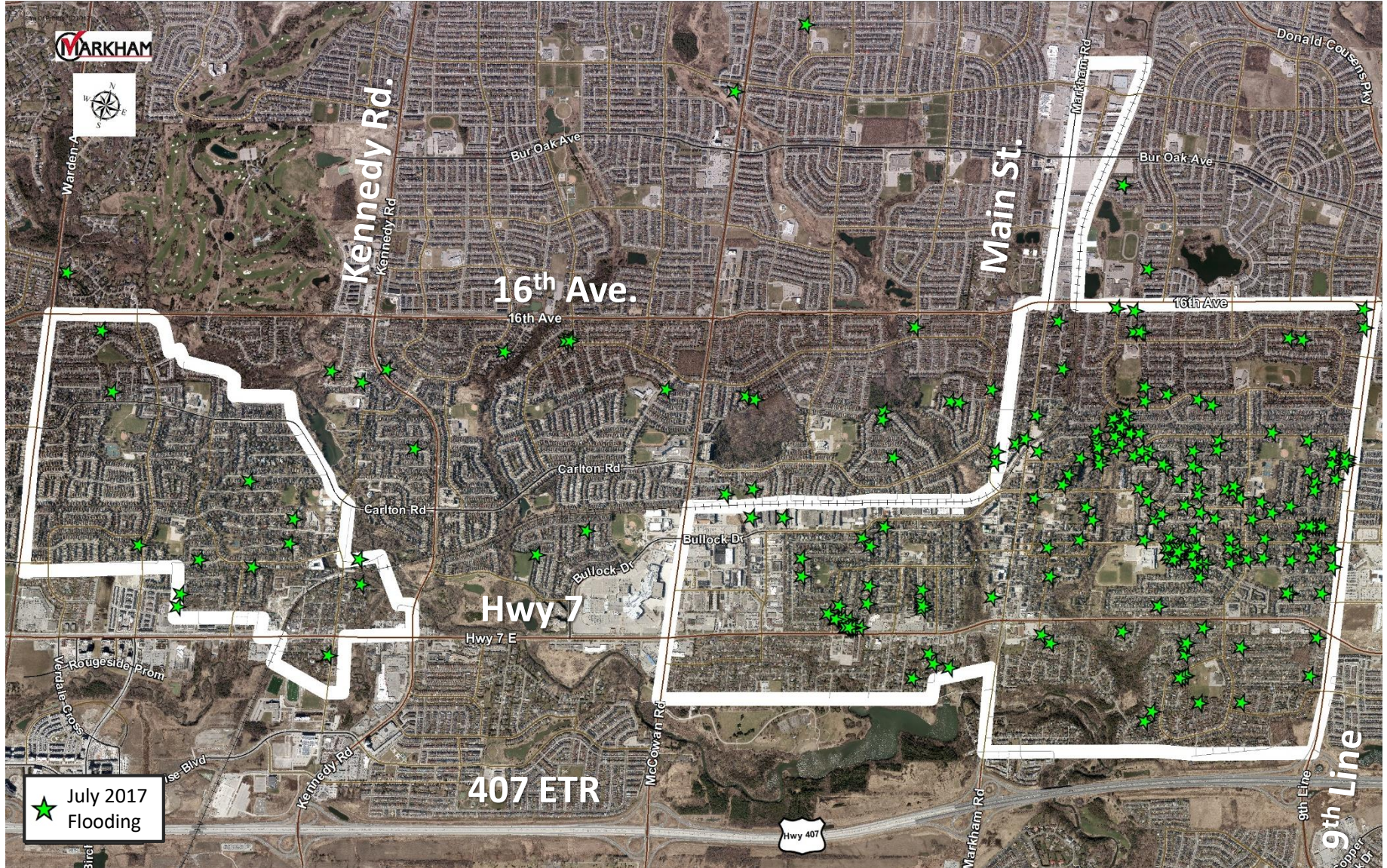
## Markham's Flood Control Program

- Following the August 19, 2005 storm Markham initiated several flood risk reduction initiatives and actions:
  - Wastewater pipe upgrades and diversions to address bottlenecks in capacity;
  - Mandatory downspout disconnection program to reduce stormwater into City-wide wastewater systems;
  - Developed a long-term City-wide Flood Control Program and sustainable funding source (Stormwater Fee) for city-wide stormwater system upgrades;
  - Completed the Markham Village and Unionville Stormwater Flood Remediation Feasibility Study in 2021 to identify sewer system upgrades to meet “100-year storm” design standard requirements in high flood risk areas.





# Markham Village/Unionville Study Area & Flood Records







## Causes of Flooding

- The area was developed prior to 1978, when the City's storm drainage design standards were limited to only 5-year level of service.
  - When very large storm events occur, there is not enough capacity in the system, and it surcharges into basements.
  - The City later updated the design standard to provide 100-year level of service.
- Private plumbing systems require maintenance, which can cause basement flooding when not performed.





## Proposed Solutions

- Options for solutions include:
  - Storm and sanitary sewers and watermain upgrades;
  - Mount Joy Creek new outfall on Church Street;
  - Private Plumbing Protection
- Four project clusters have been identified:
  - The timing and phasing of upgrades are to be prioritized based on **risk** and logistics associated with construction;
  - Work is clustered based on combining work on individual drainage systems in the same location, and at similar risk levels;
  - The clusters are numbered 1 to 4 based on high to low risk.
- The Private Plumbing Protection Program will continue to be available for all homes within the study area.

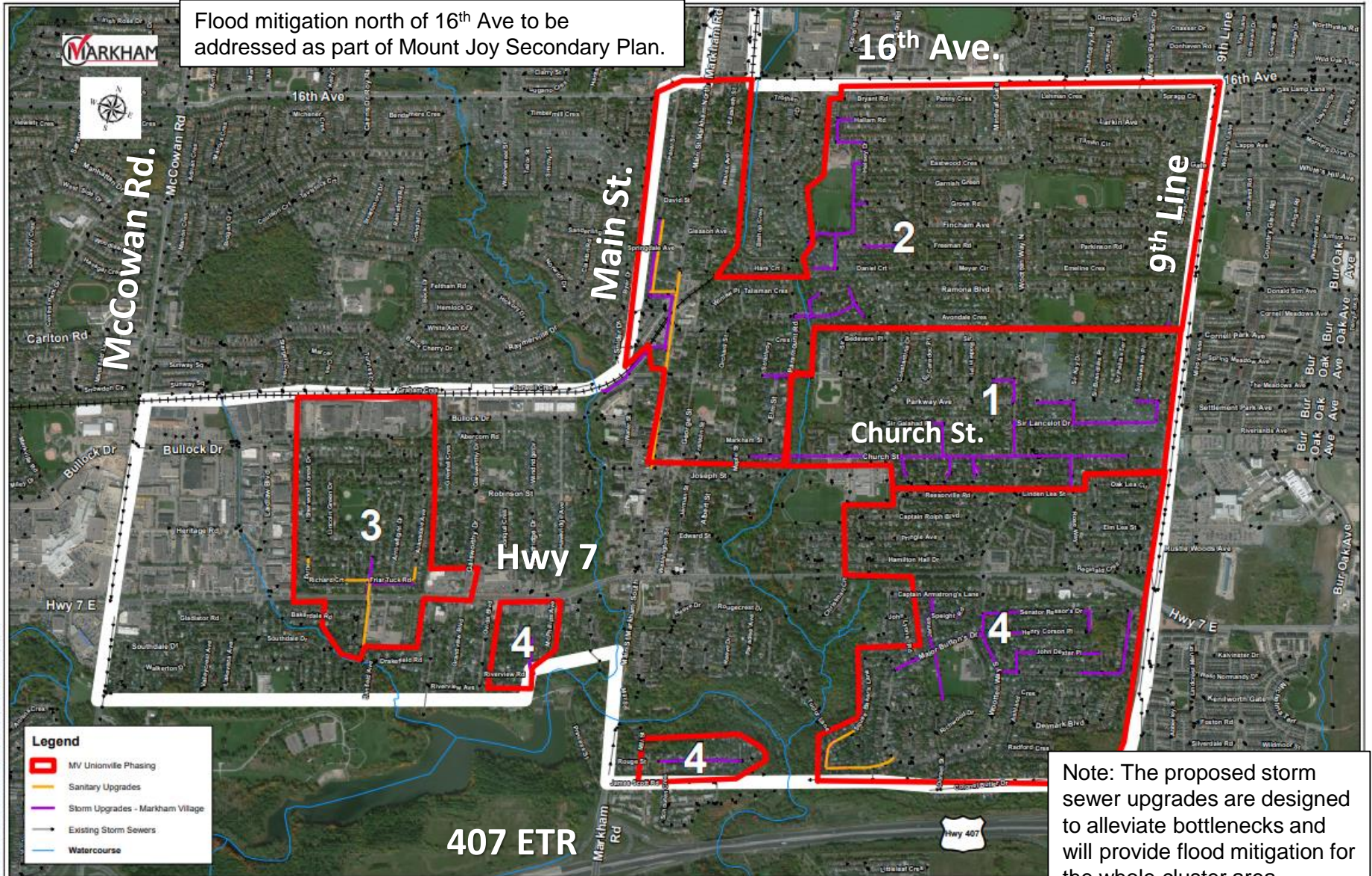






# Project Clusters – Markham Village

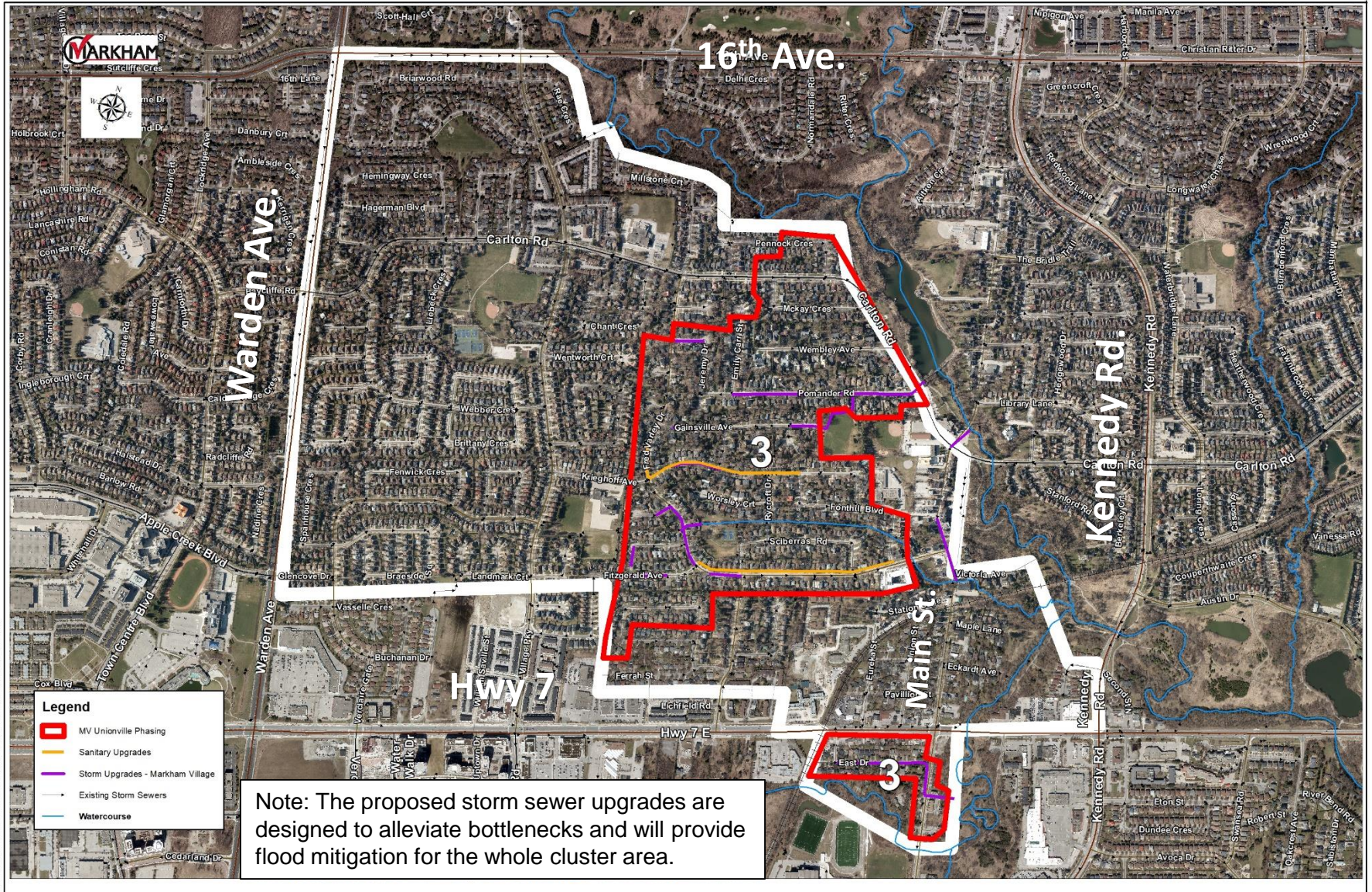
Flood mitigation north of 16<sup>th</sup> Ave to be addressed as part of Mount Joy Secondary Plan.







# Project Clusters - Unionville









## Implementation Strategy

- Storm drainage improvements to manage flood risks were identified in Feasibility Study recommendations in 2021;
- Staff presented an implementation strategy to Council in 2021 identifying phasing of improvements in Markham Village.

Project Phases	Design	Construction
1A, 1B & 1C	2022 - 2024	2024 - 2027
2	2025 - 2027	2027 - 2028
3	2026 - 2029	2028 - 2030
4	2028 - 2030	2030 - 2032