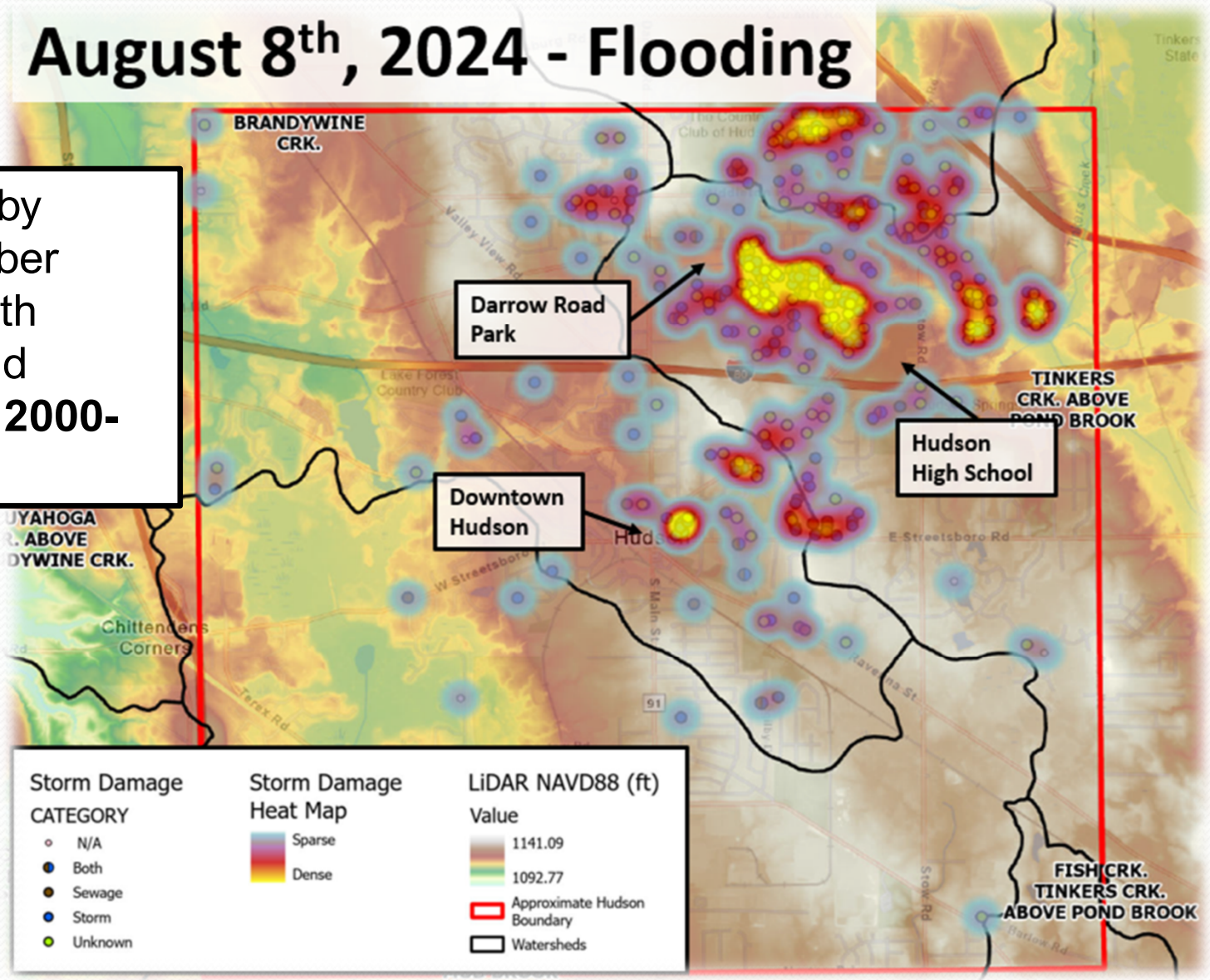
August 8, 2024
Post Event "Neighborhood" Flood Studies

April 22, 2025– Hudson Engineering Department Summary

August 8, 2024 Flood Recap

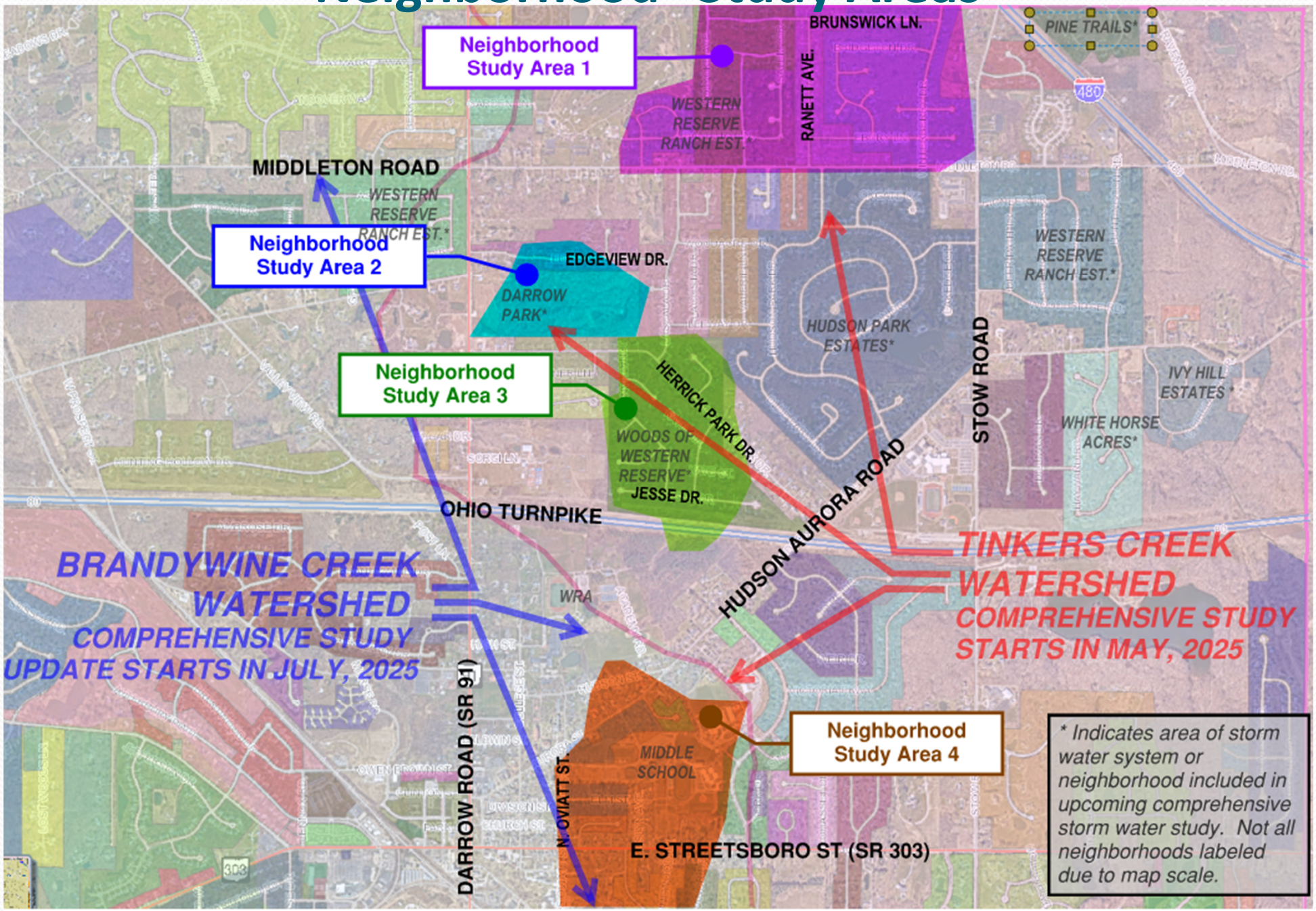
Preliminary Study by consultant in October reviewed August 8th rainfall intensity and identified a **500 to 2000-year event.**



“Neighborhood” Storm Water Studies

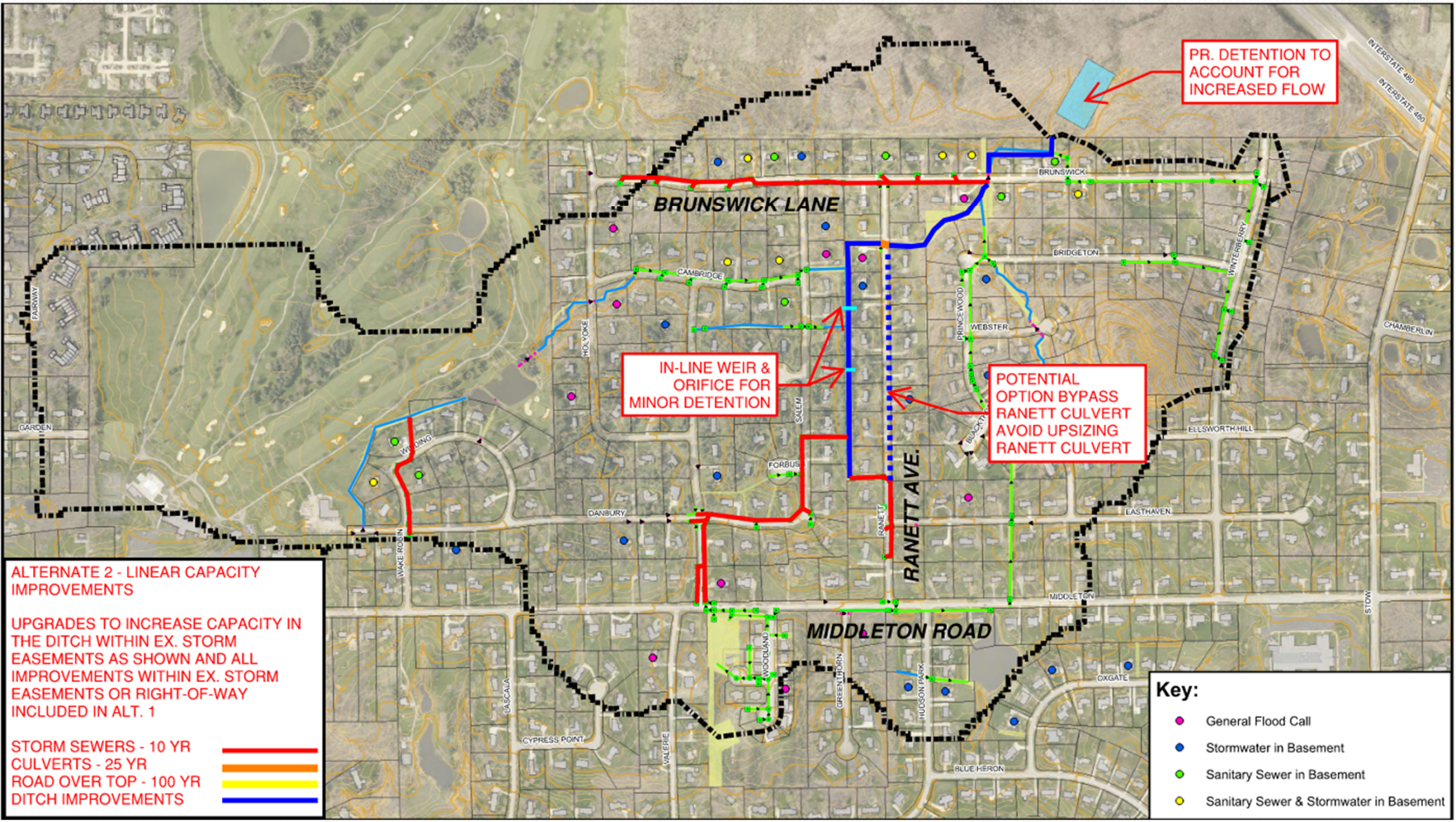
- Goal: Expatiate evaluation to find potential improvements that could be moved into design and budgeting.
- Goal: Use existing GIS data (catch basin elevations, pipe sizes, contours and resident input) in order to expedite evaluations.
- Goal: Where possible, use existing, digital, hydraulic model data.
- Goal: Focus on identifying undersized storm pipes and potential for storm water storage in existing open spaces.
- Four (4) neighborhoods studied.

“Neighborhood” Study Areas



Neighborhood Study Area 1

- **Middleton Rd, Brunswick Ln, Ranett Ave, Salem Dr Area:**



Neighborhood Study Area 1

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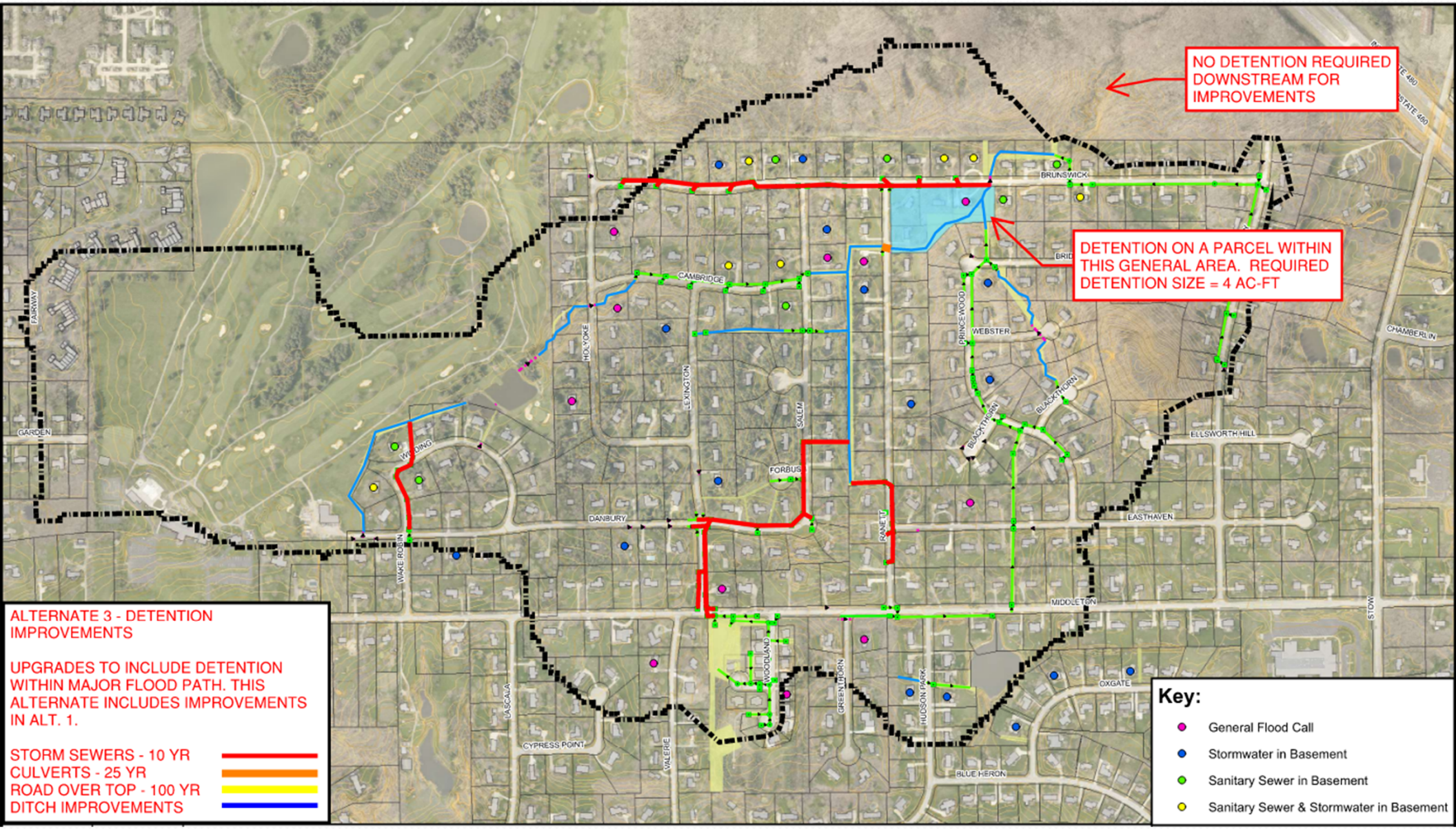
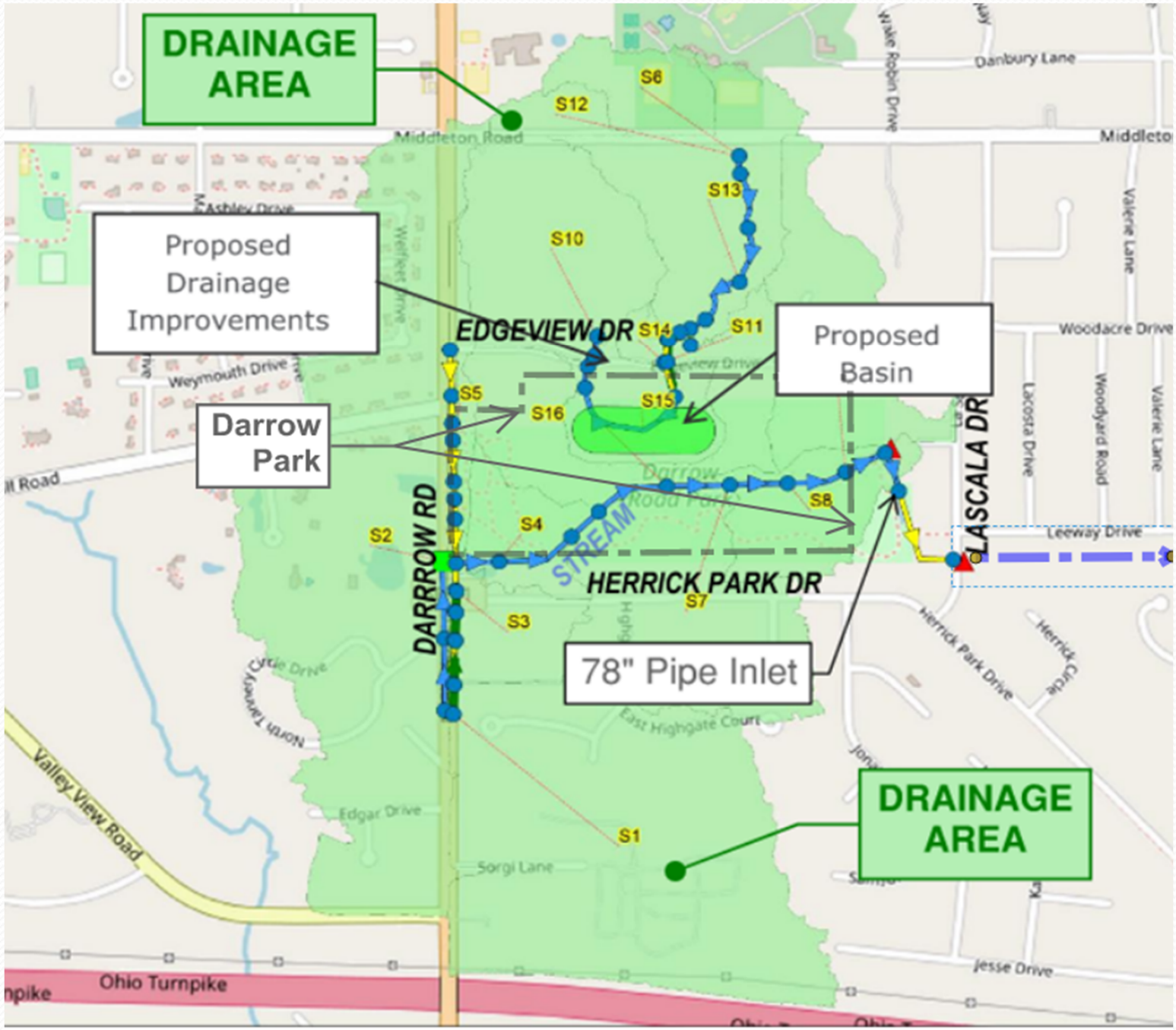


Neighborhood Study Area 2

Edgeview Dr (west) and Darrow Park

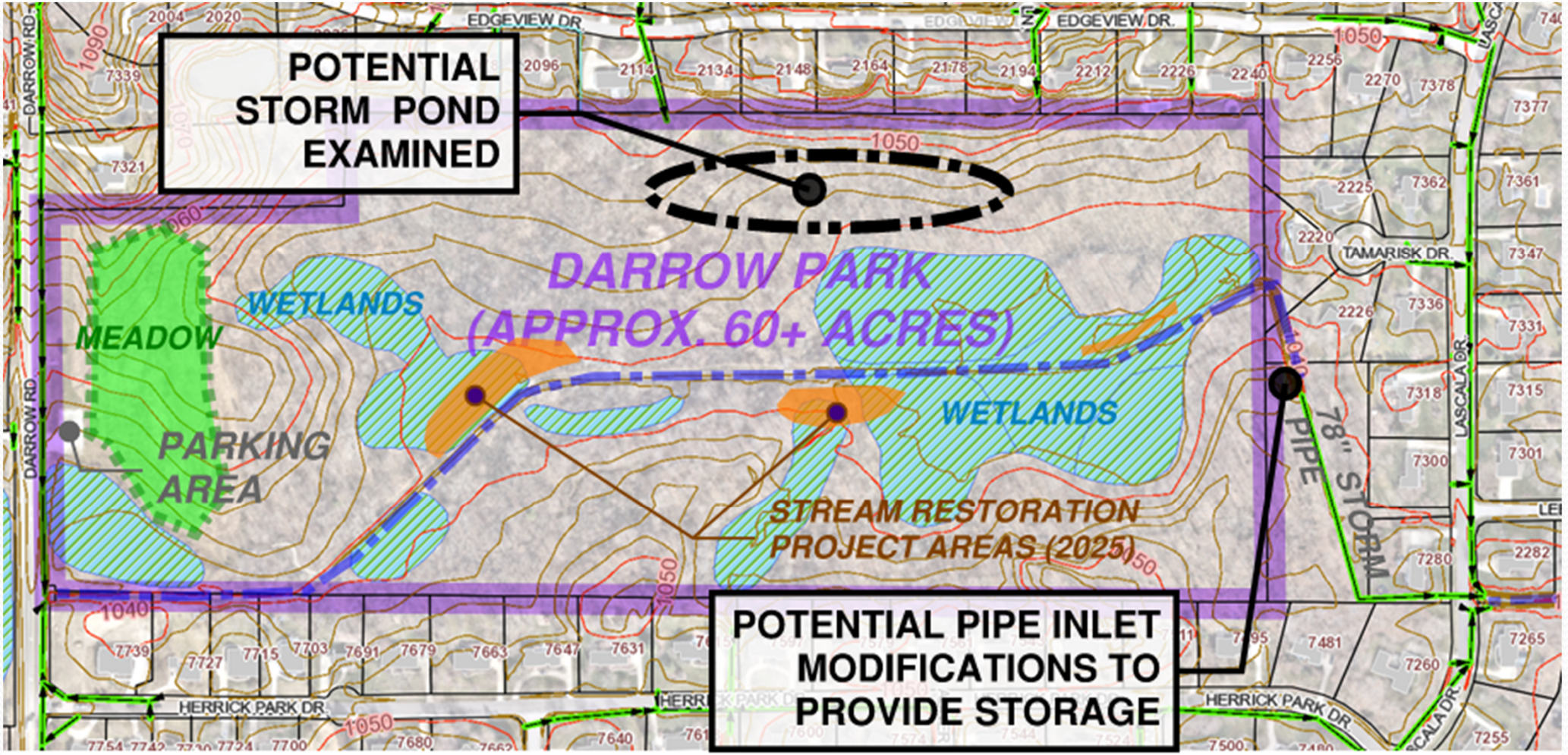


Neighborhood Study Area 2

Edgeview Drive, westerly Ditch/Culvert Analysis

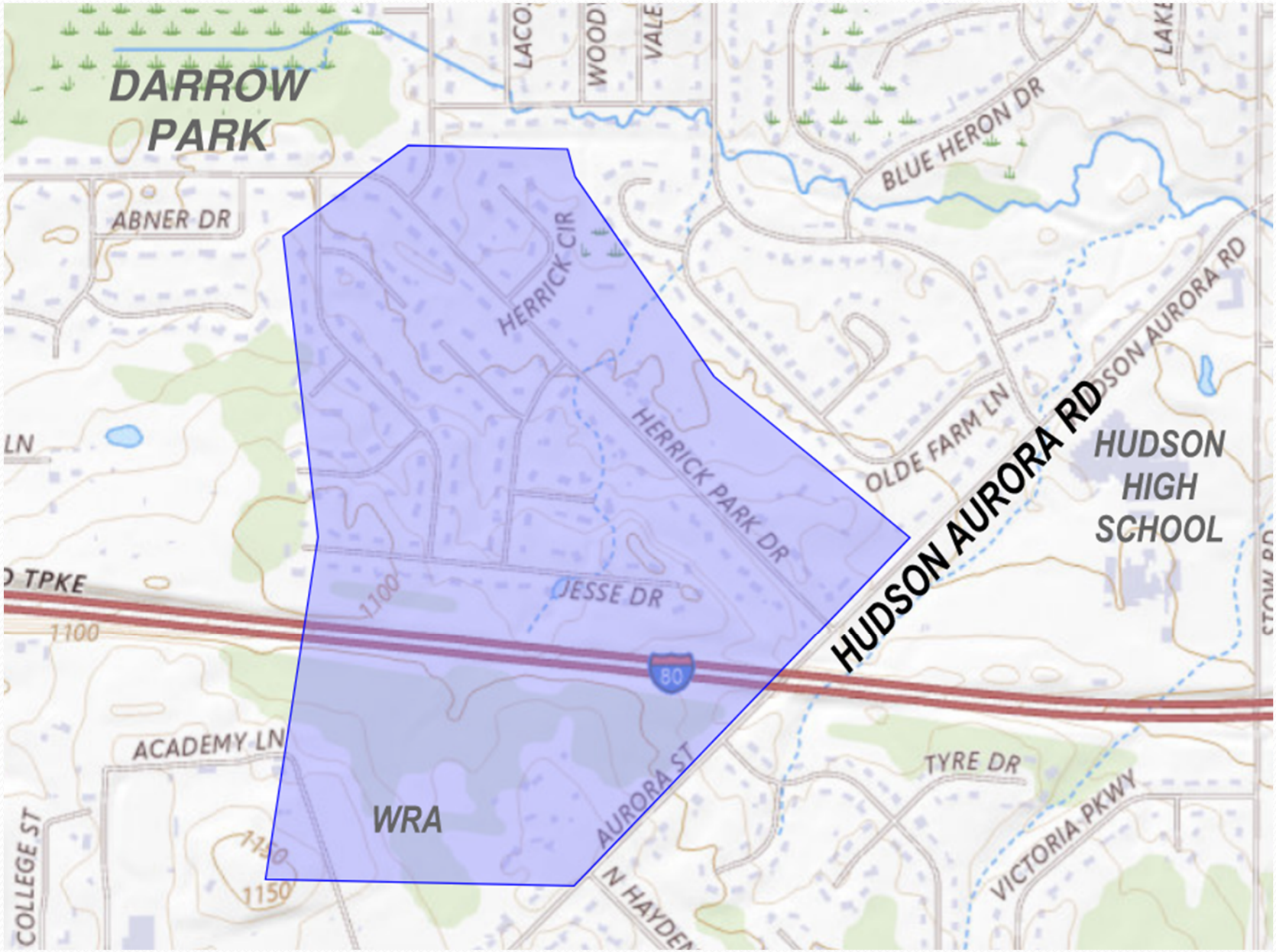
Neighborhood Study Area 2

Potential Darrow Park Improvements



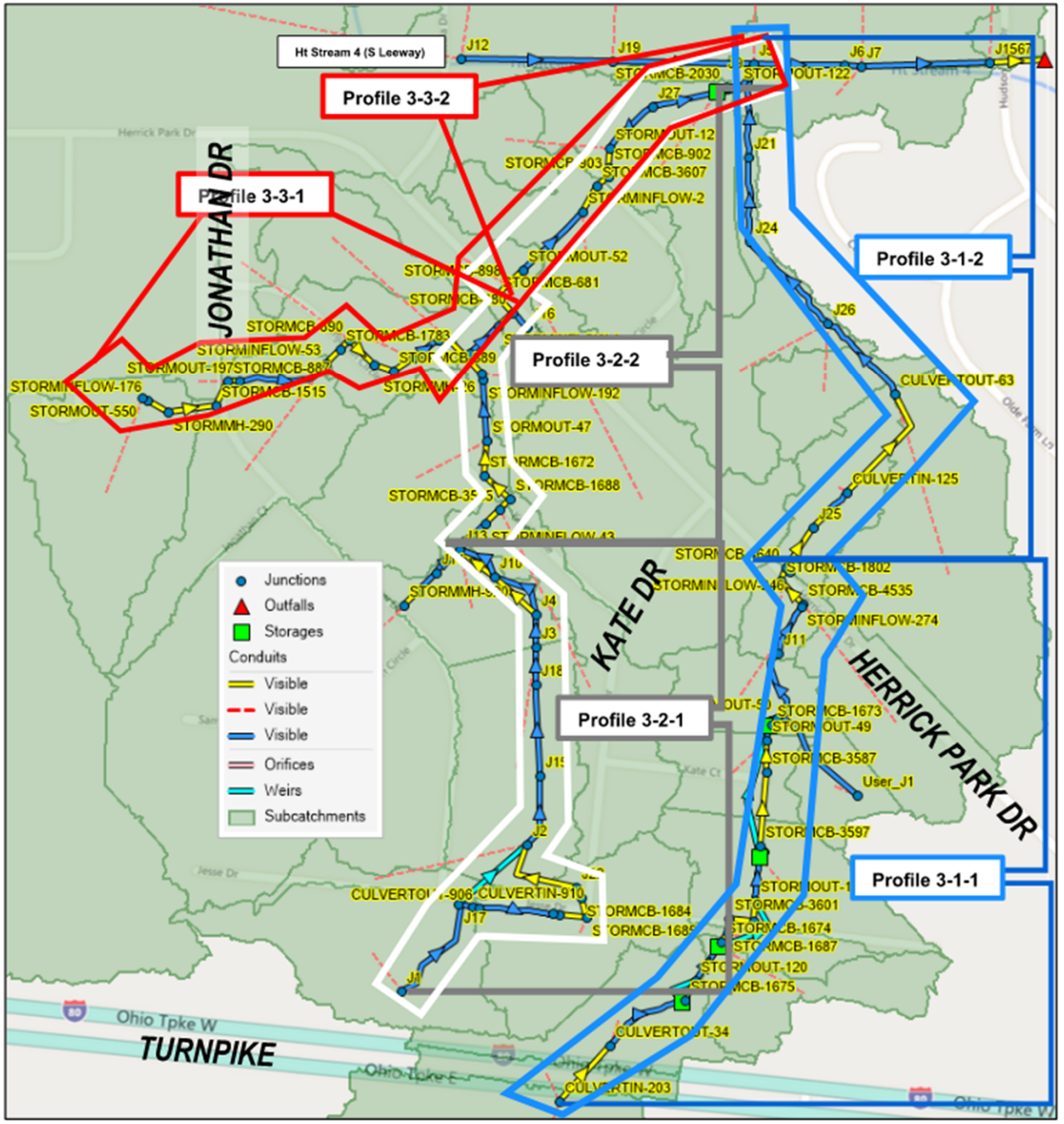
Neighborhood Study Area 3

Woods of Western Reserve Neighborhood



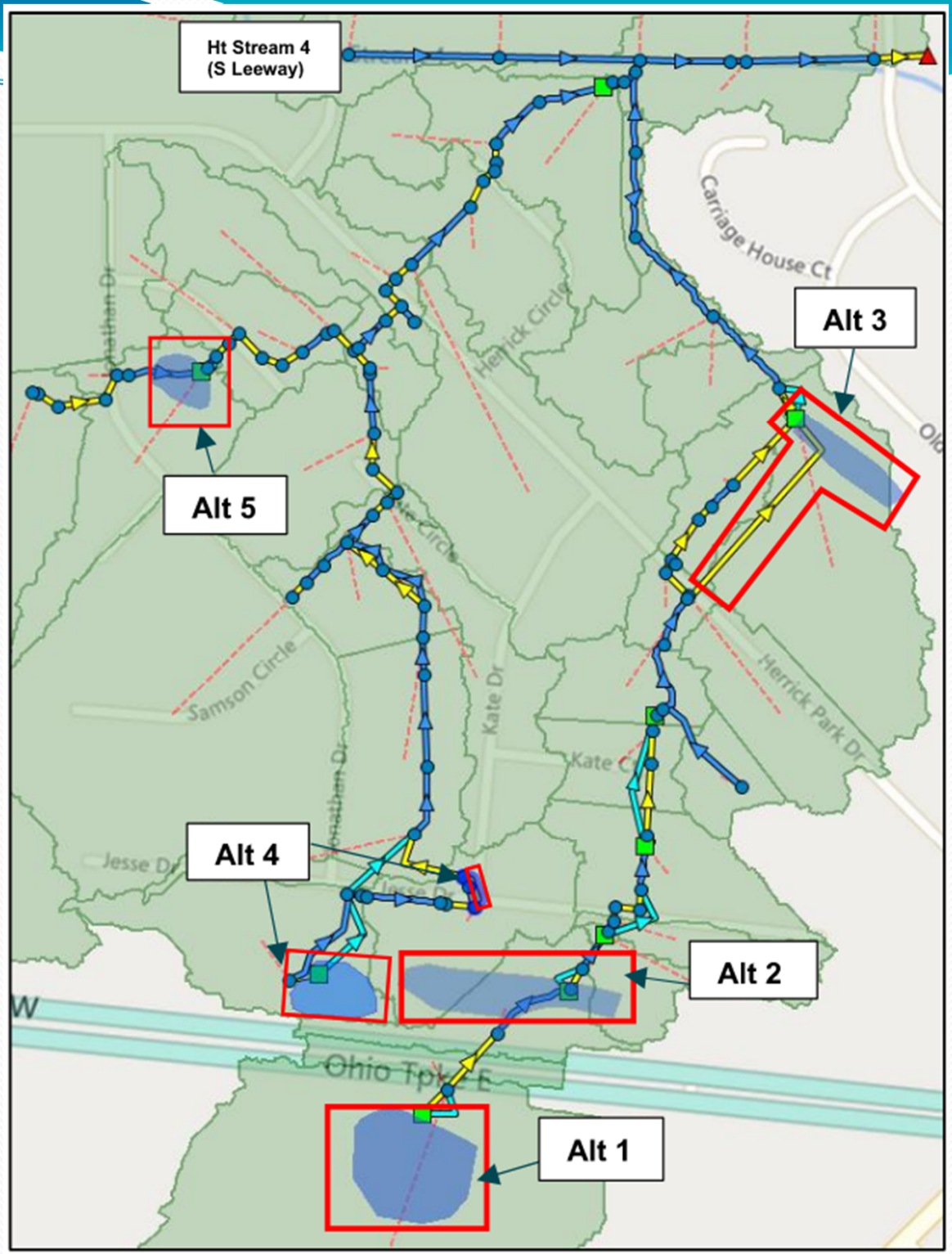
Neighborhood Study Area 3

Woods of Western Reserve Neighborhood – Three Main Storm Branches



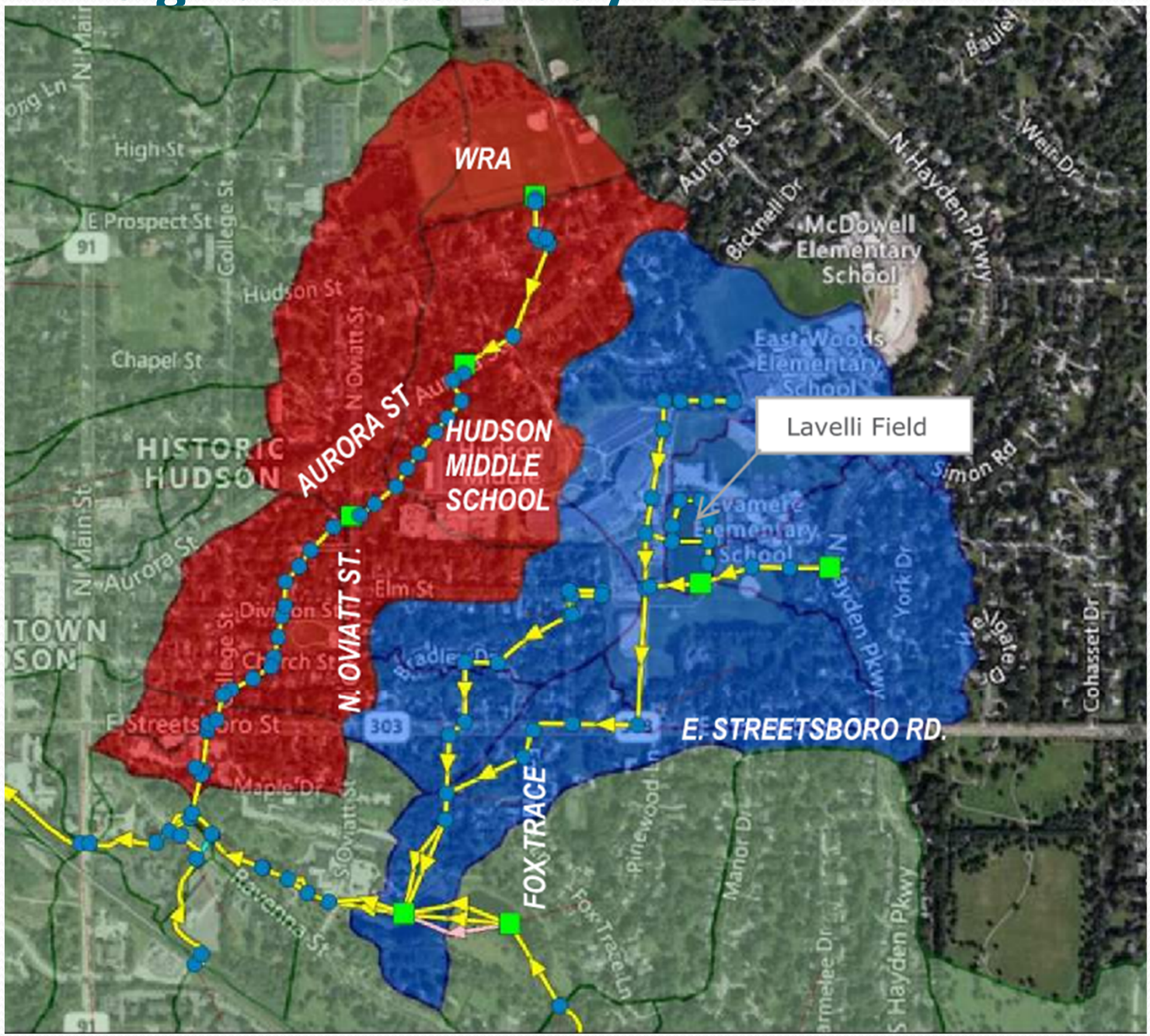
Neighborhood Study Area 3

Woods of Western Reserve Neighborhood – Potential Areas for Storm Water Management



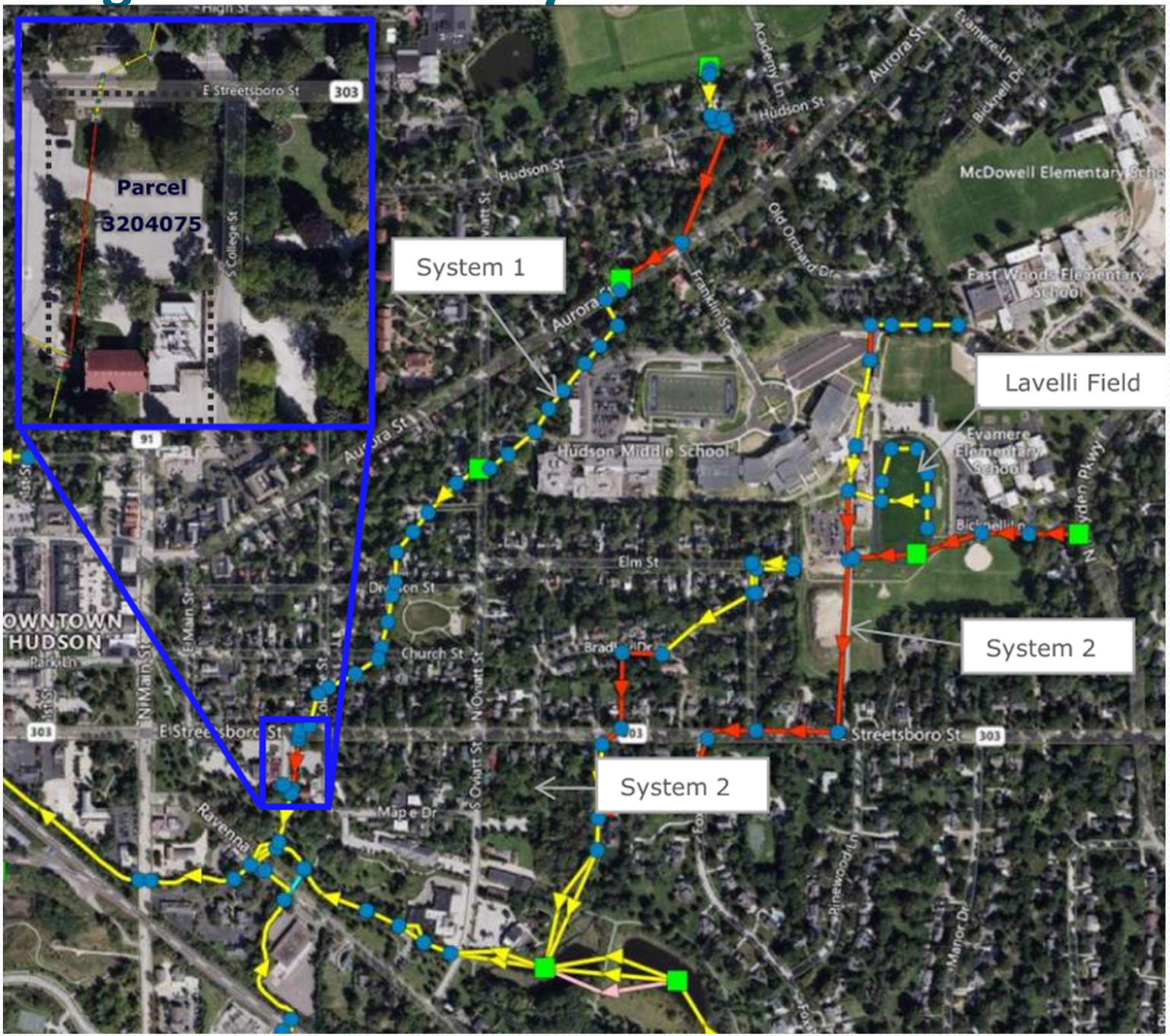
Neighborhood Study Area 4

Historic Neighborhood, Middle School Campus and Surrounding Streets



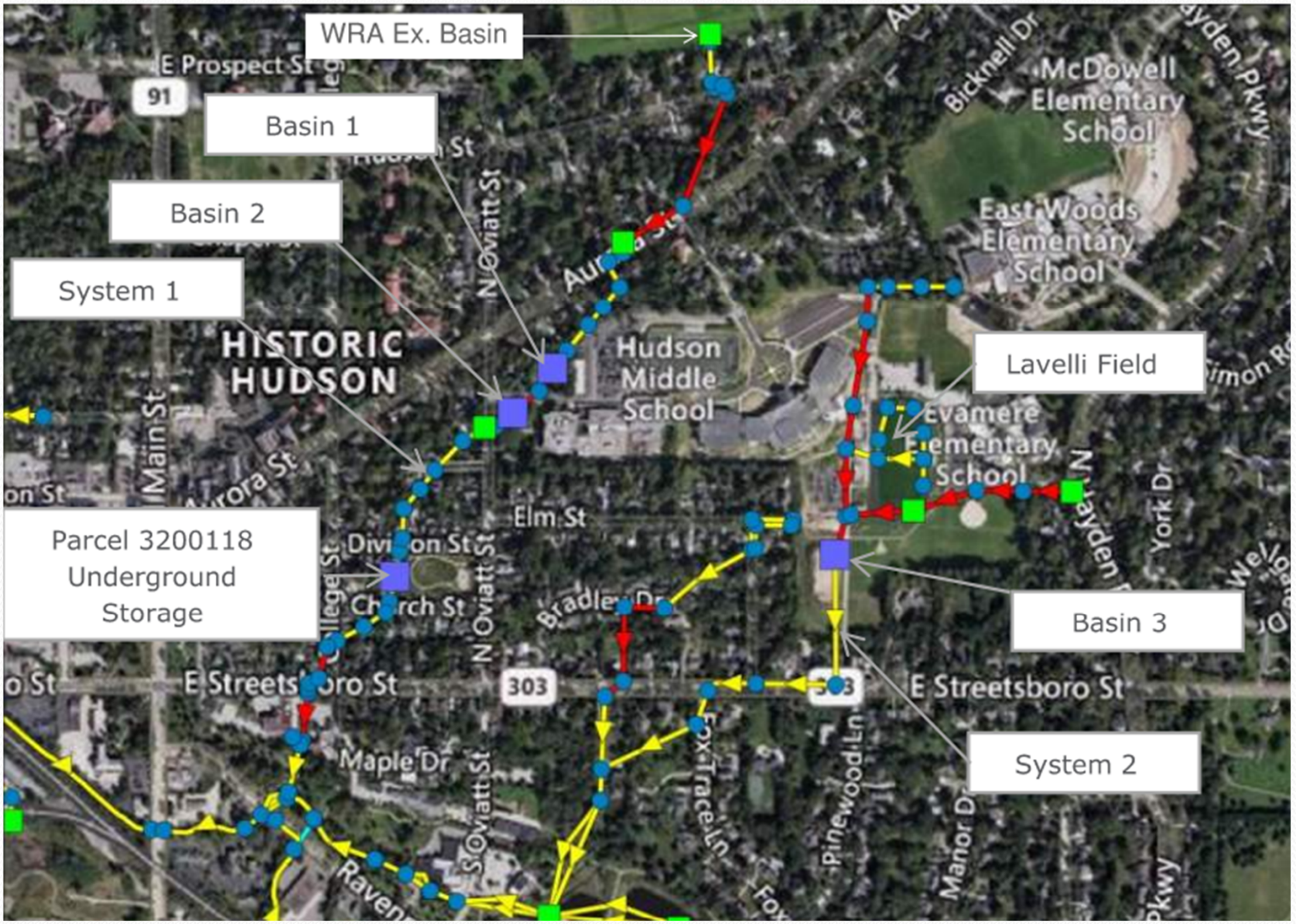
Neighborhood Study Area 4

Historic Neighborhood, Middle School Campus and Surrounding Streets – Storm Systems Analyzed



Neighborhood Study Area 4

Historic Neighborhood, Middle School Campus and Surrounding Streets – Potential Storm Water Management



Next Steps

- Commence with preliminary design and budgeting development of improvements identified to have immediate flood reduction benefits.
  - *Example: Pipe Upgrade at Rosewood Grill Parking Lot*

- Contact potential partners, such as schools, for input on using property for storm water management.
  - *Example: Middle School Open Space north of 303*

- Use findings from studies in comprehensive studies in 2025. Develop cost/benefit for projects in order to rank and develop long-term improvements that will maximize flood reduction.