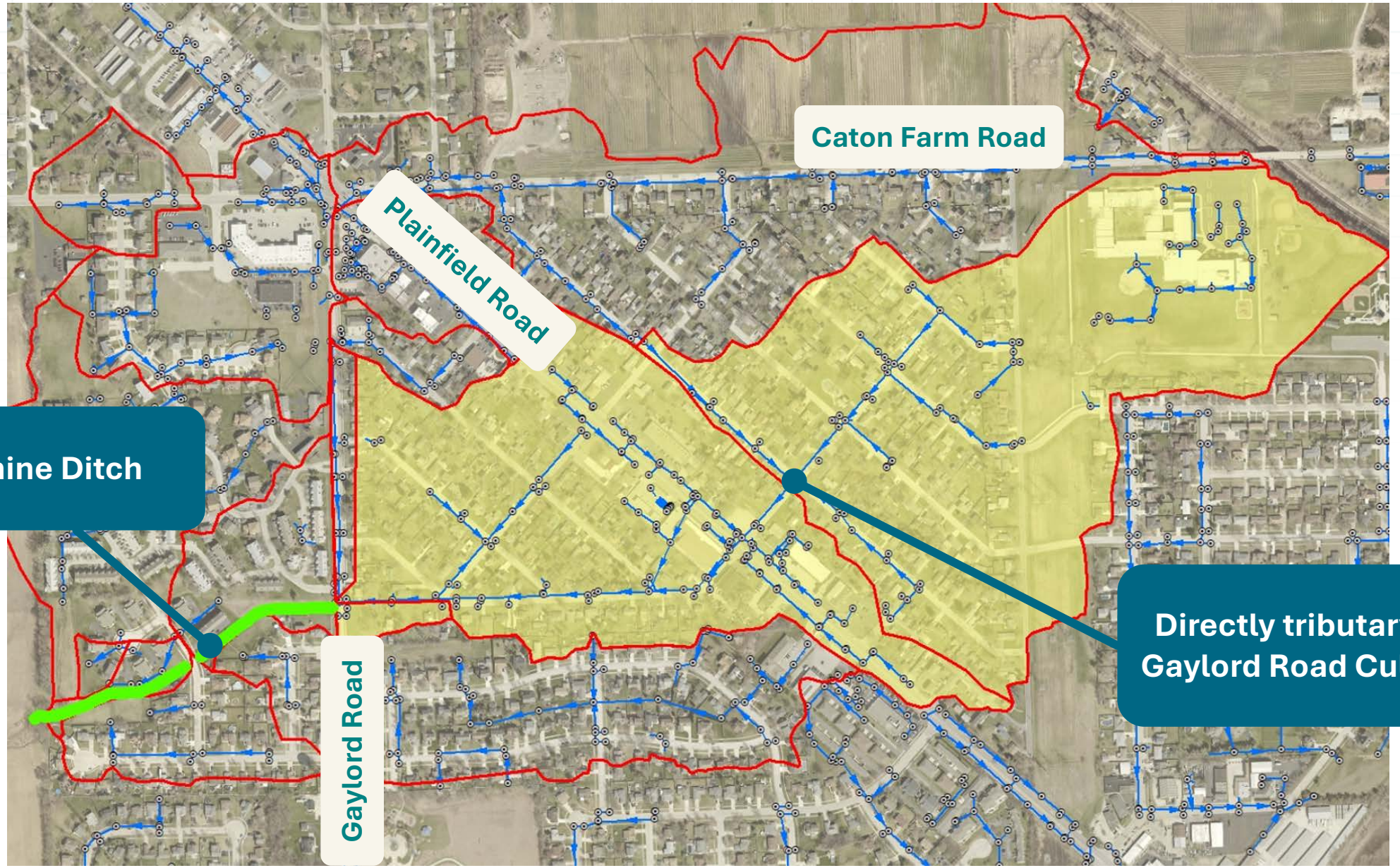


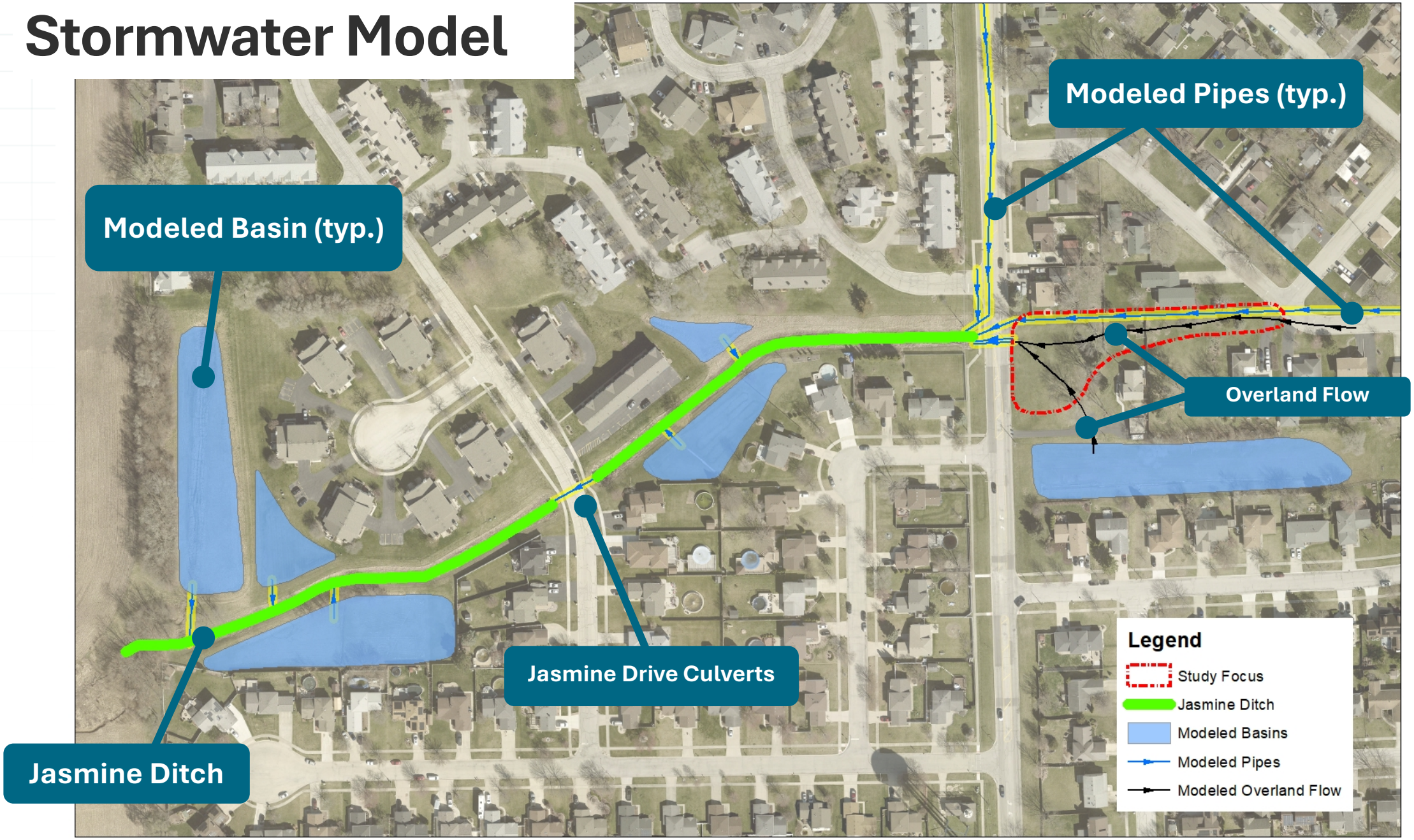
Jasmine Ditch Drainage Study

November 9, 2026

Watershed Area



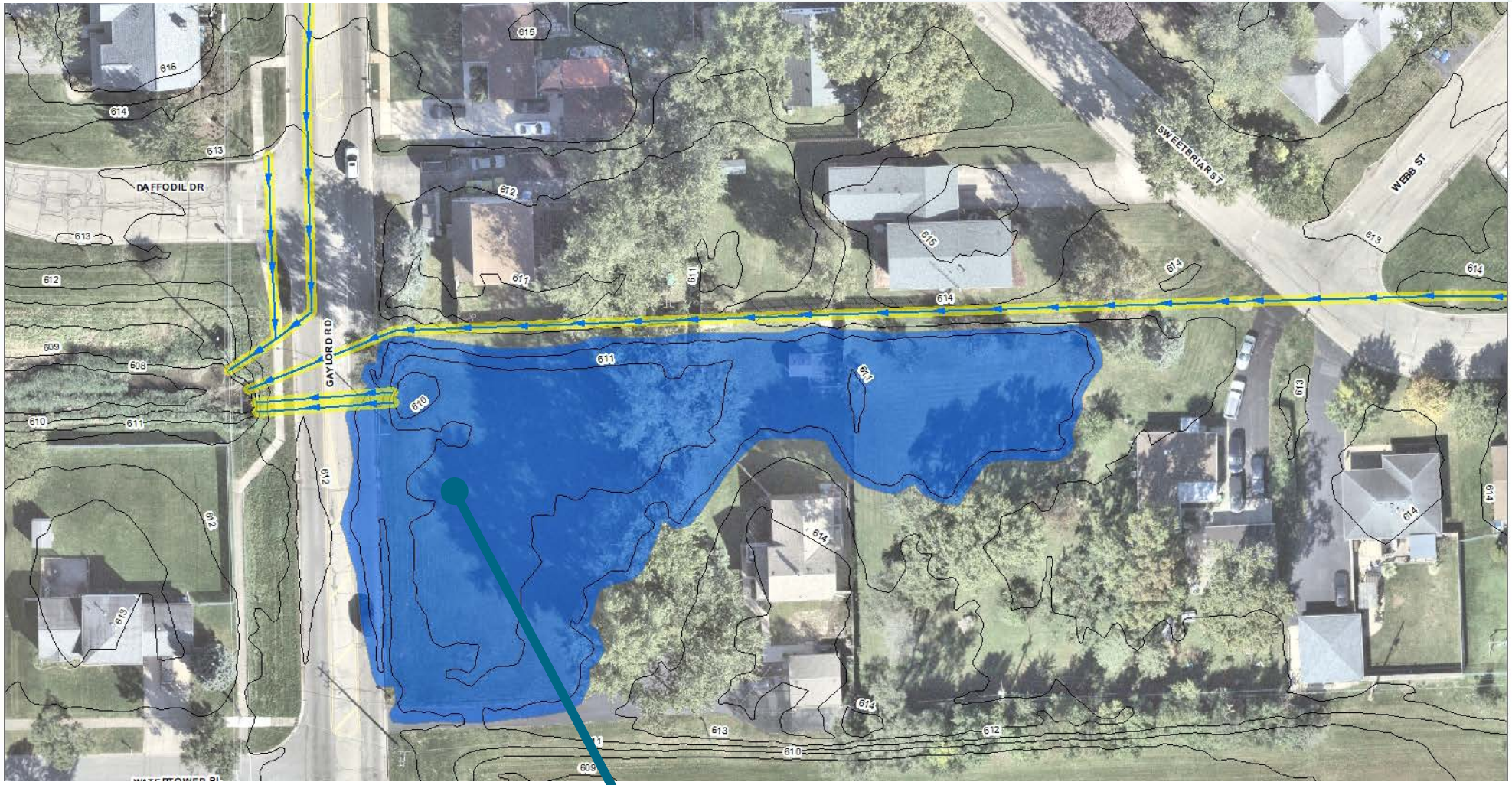
Stormwater Model



Model Results



Model Results



Flooding Photos



Downstream of Gaylord



Upstream of Gaylord

Flooding Photos



Upstream of Gaylord



Upstream of Gaylord

Historic Conditions



Limitations

Eliminating all ponding at 2102 may not be feasible due to the following:

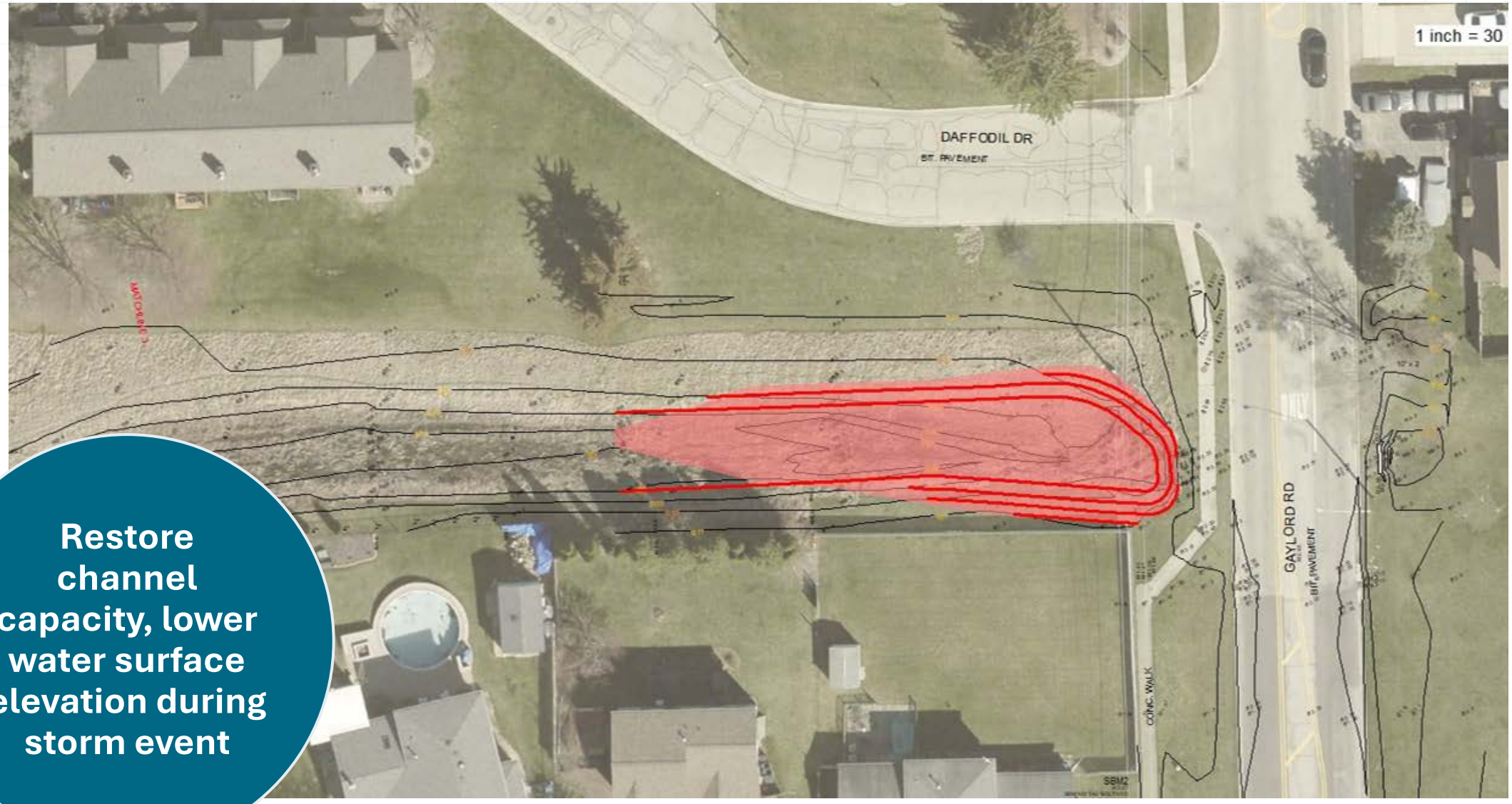
- **Natural topography – runoff will collect at the lowest point**
- **Elevation of Gaylord Road culverts**
  - *If the culverts are only just full, there is +/-1' of ponding on the property*
- **Elevation of Jasmine Ditch**
  - *A "full" ditch is 3-4' deep but at only 2' deep there is ponding at 2102 Gaylord*
  - *Much of the water in Jasmine Ditch enters immediately downstream of Gaylord*
- **Ditch Topography**
  - *Relatively flat, need to go far downstream before water level does not back up east of Gaylord Rd.*

Opportunities

Ponding may not be eliminated but can be improved. Four options were evaluated:

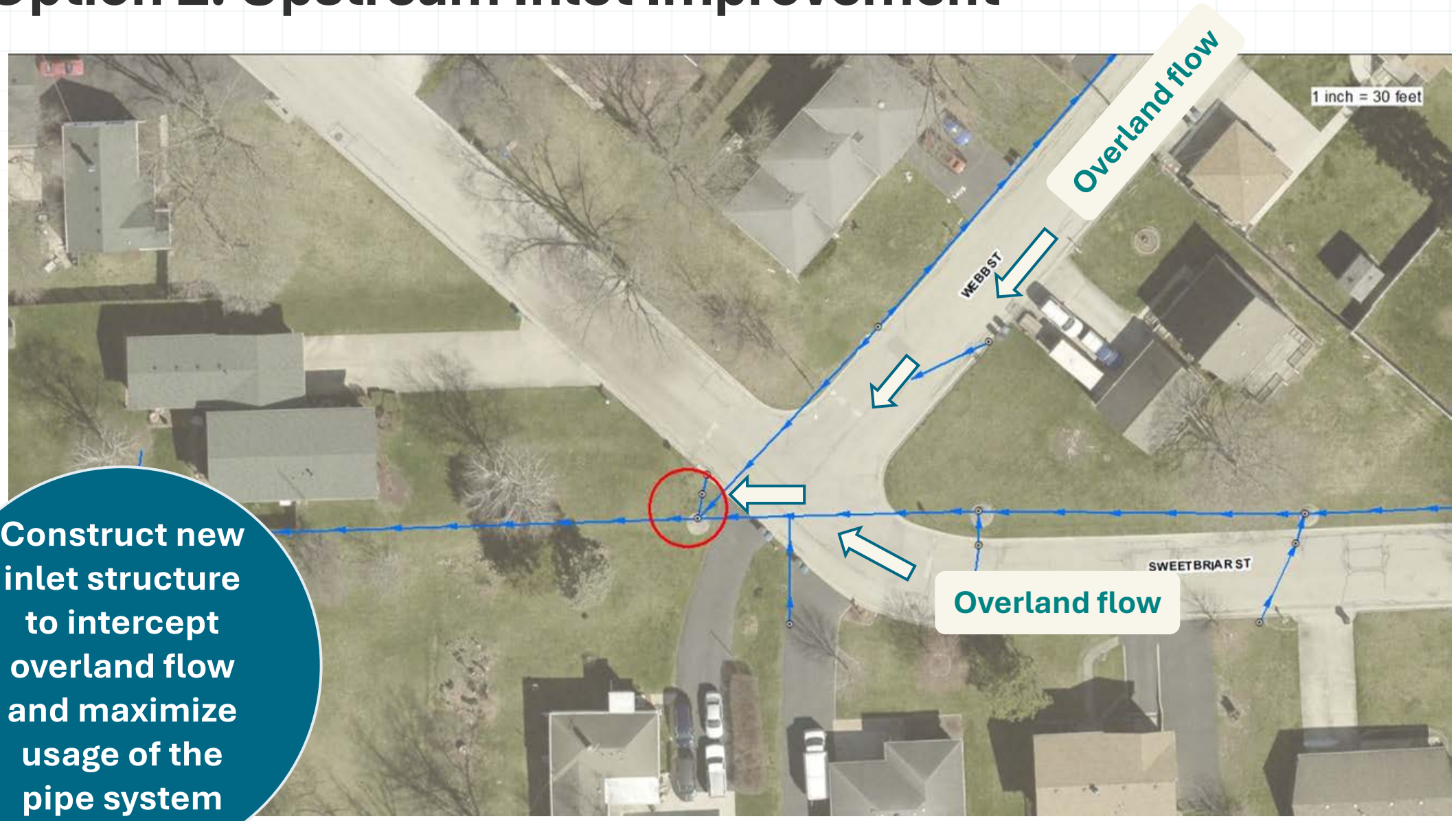
- Excavate Jasmine Ditch for 150’ downstream of Gaylord Road
- Upstream Inlet Improvements
  - *Maximize the water that goes into the storm sewer system*
- Upstream Swale Grading
  - *Excavate a graded swale to convey overland flow and contain the ponding area*
- Storm Sewer Extension
  - *Move existing discharge points as far downstream as possible*

Option 1: Ditch Excavation



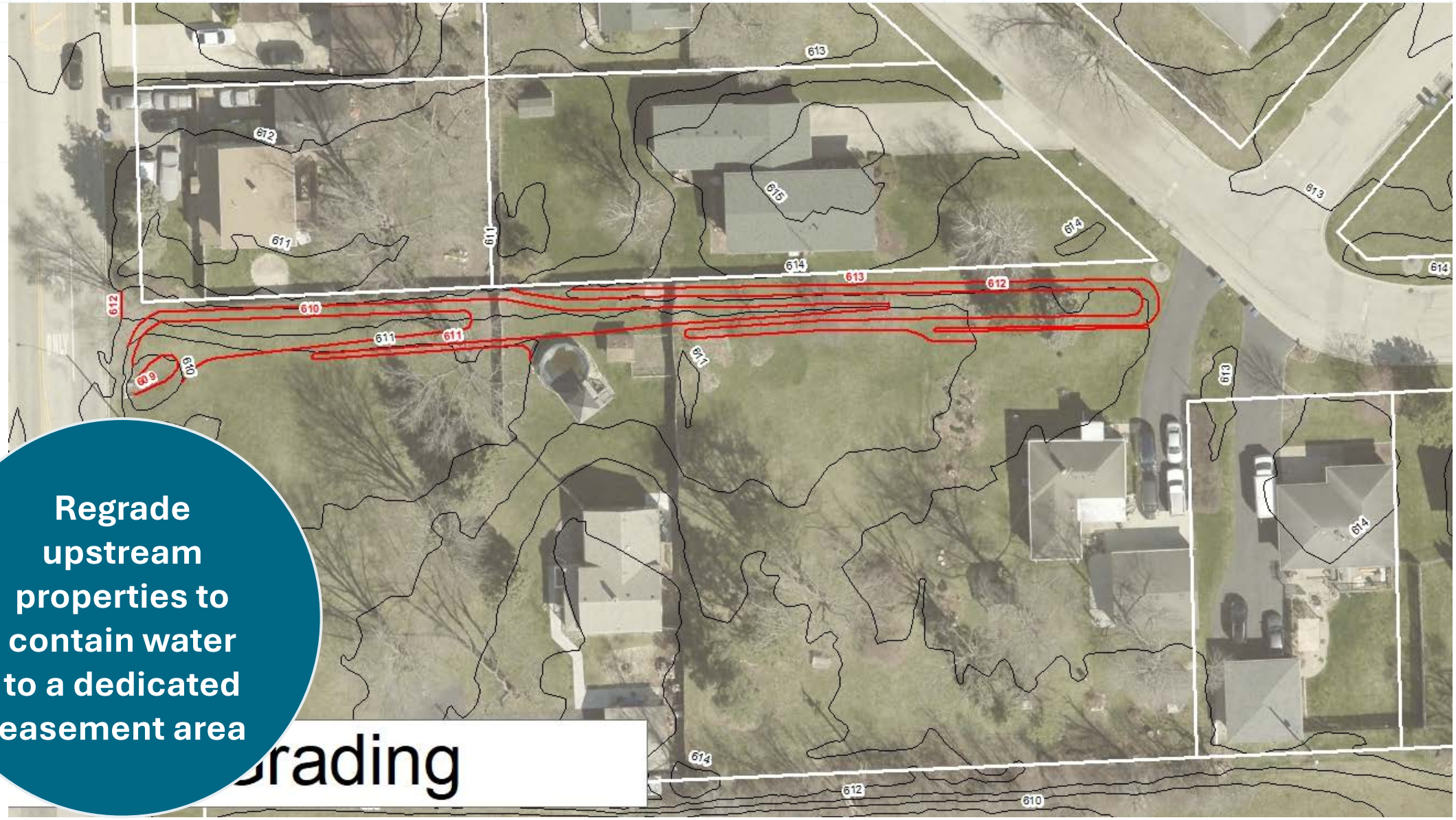
Restore channel capacity, lower water surface elevation during storm event

Option 2: Upstream Inlet Improvement



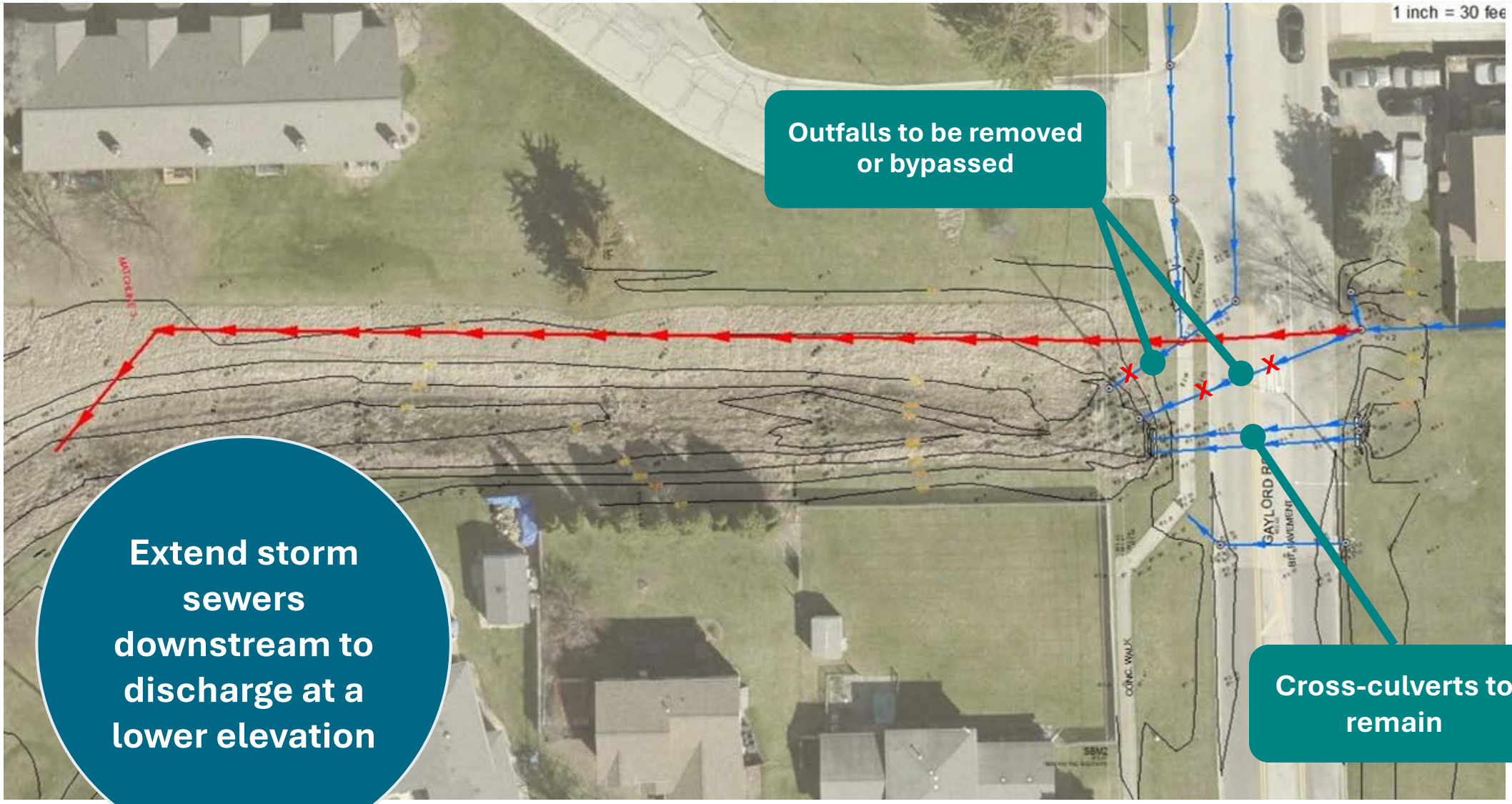
Construct new inlet structure to intercept overland flow and maximize usage of the pipe system

Option 3: Upstream Ditch Extension



Regrade upstream properties to contain water to a dedicated easement area

Option 4: Storm Sewer Extension



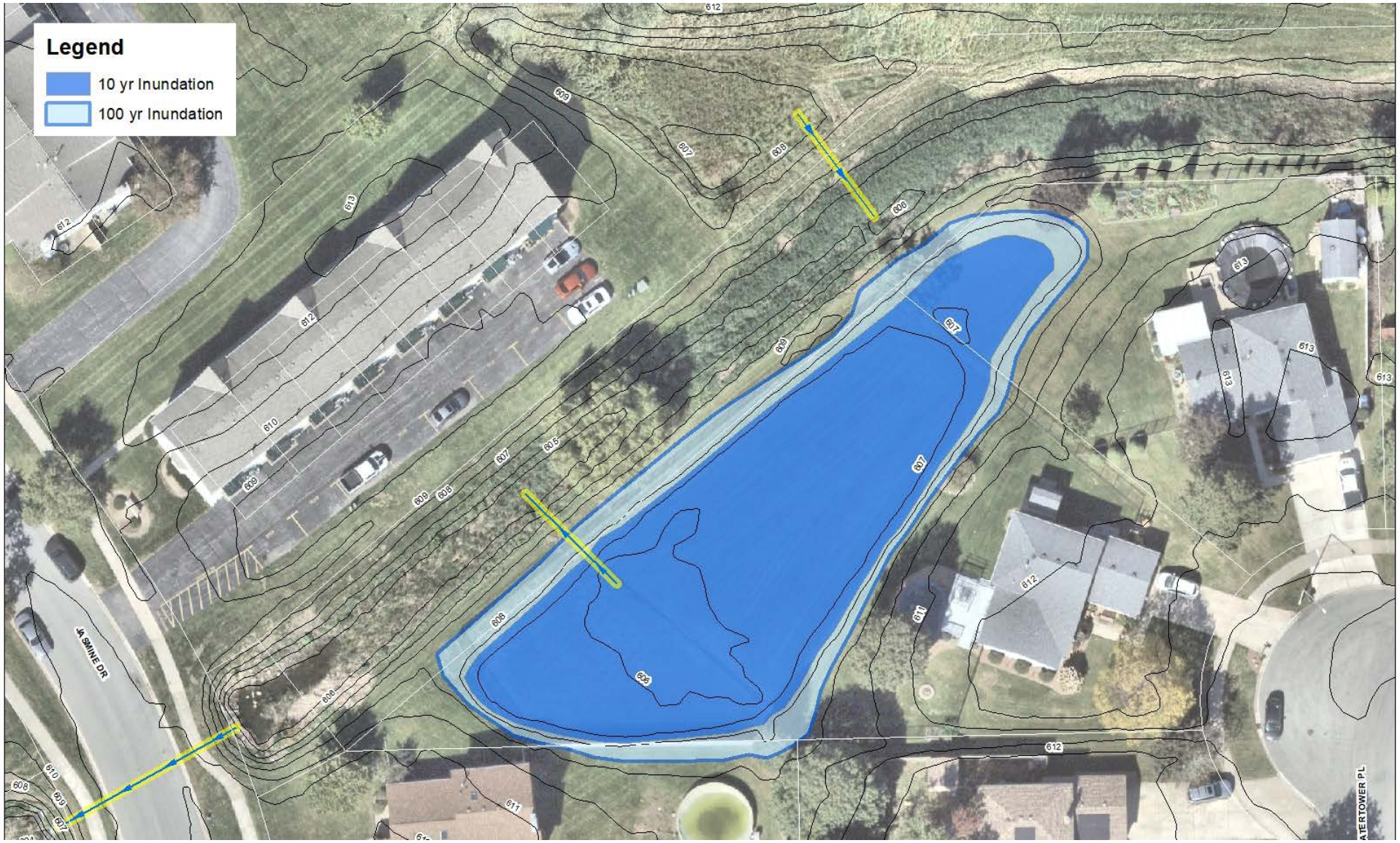
Staff Recommendations

1. Widen the downstream cross section of the ditch as presented.
2. Extend the existing 36-inch storm sewer system farther west of Gaylord as presented.
3. Install drainage structures and/or cut a new swale from Sweetbriar St to Gaylord and work with the property owners to obtain drainage and utility easements.
4. Have Public Works develop a maintenance protocol that prevents the re-vegetation of the downstream ditch.

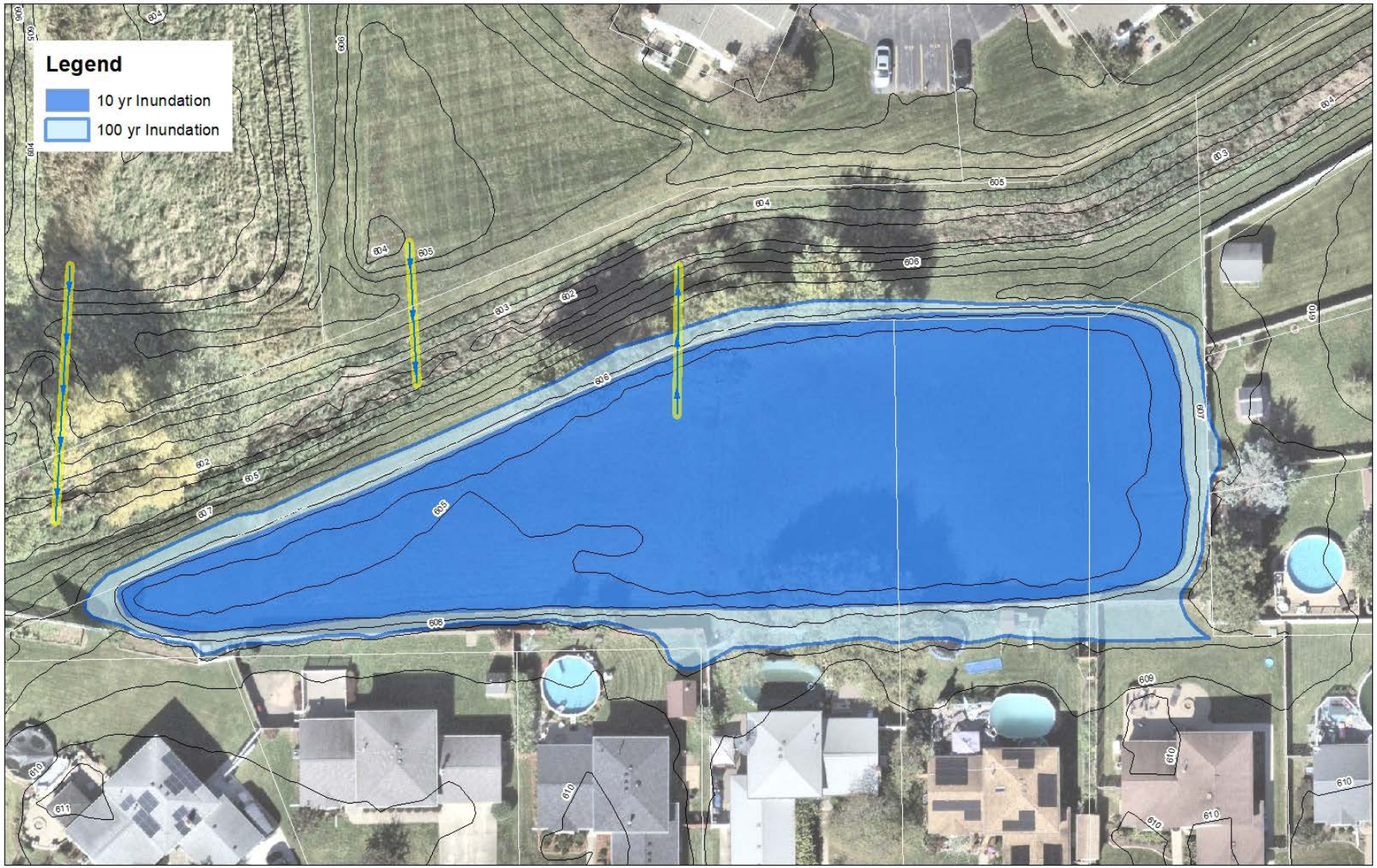
Detention Areas



Detention Areas



Detention Areas



Thank You

CBBEL