



Tonkin Drain

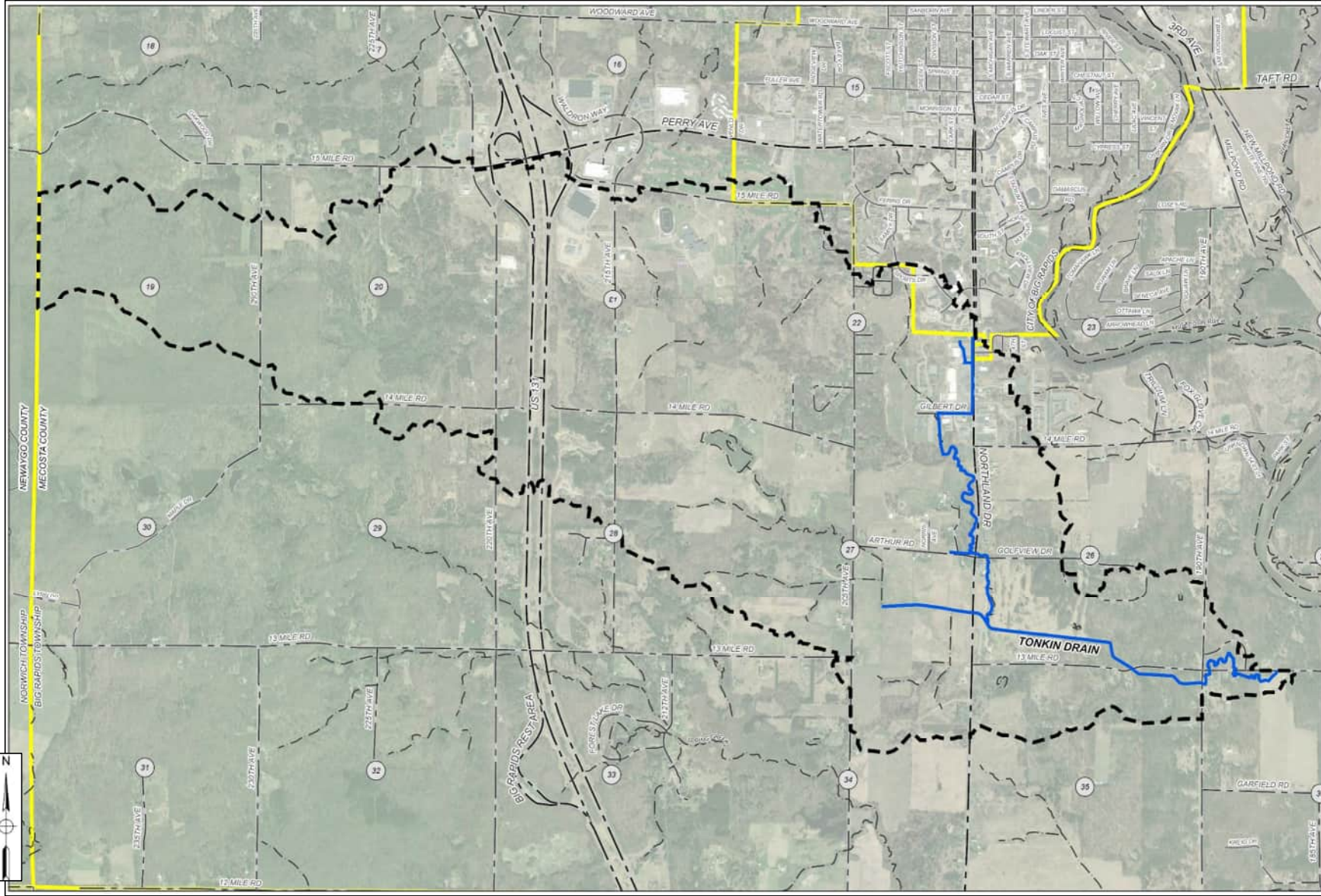
Mecosta County Drain Commissioner

Project Overview

Big Rapids Charter Township

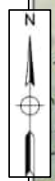
March 4, 2025

Drainage District



LEGEND

- APPROXIMATE DRAIN LOCATION
- DRAINAGE DISTRICT BOUNDARY
- WATERCOURSES
- STATE ROADS
- COUNTY ROADS
- LOCAL ROADS
- MUNICIPALITY BOUNDARY



Tonkin Drain

- ▶ Drain Established in 1904
- ▶ 3,732 Acres
- ▶ 433 Parcels
- ▶ City of Big Rapids
 - ▶ 51 acres
 - ▶ 9 parcels
- ▶ Big Rapids Charter Township
 - ▶ 3,681 acres
 - ▶ 424 parcels



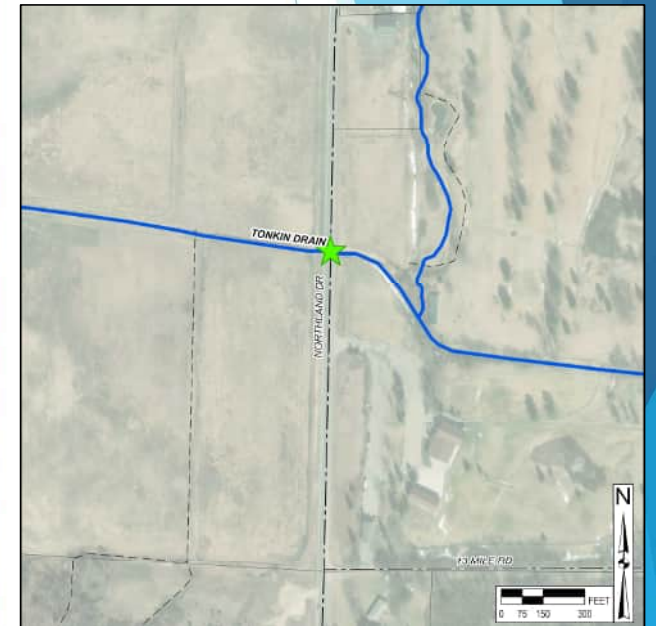
Current Petition Project

- ▶ **March 2018 - Landowner Petition**
- ▶ **May 2018 - Order of Necessity**
- ▶ **2018-2025**
 - ▶ Project Design
 - ▶ Easement Acquisition
 - ▶ Permits Obtained
 - ▶ EGLE
 - ▶ MDOT

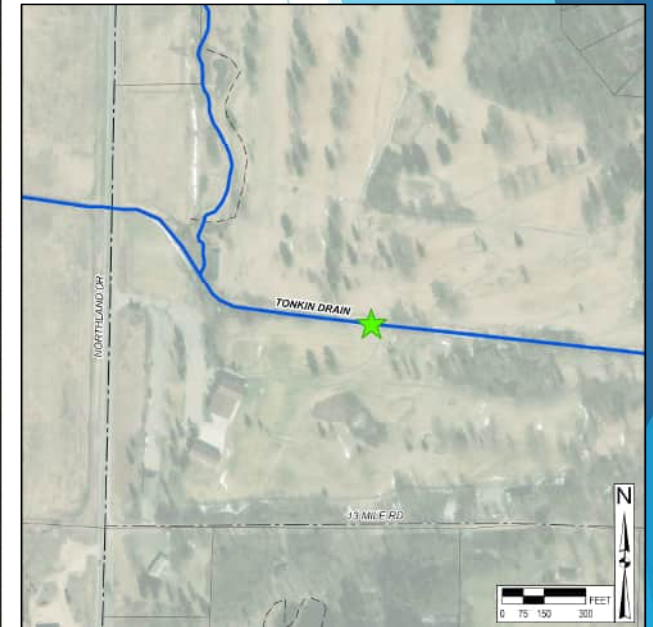
Project Concerns and Goals

- ▶ Crossing Replacements
- ▶ Erosion and Property Damage
- ▶ Flooding
- ▶ Extension and Branches Added to an Established Drain

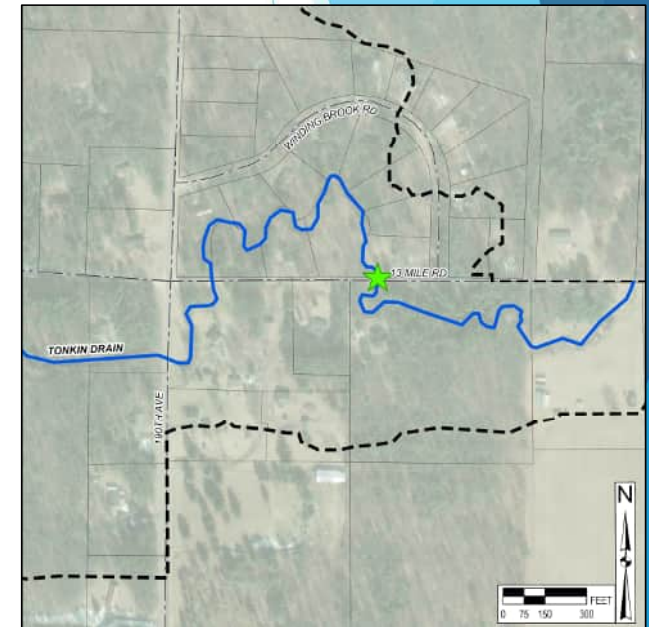
Crossing Replacements - Northland Dr



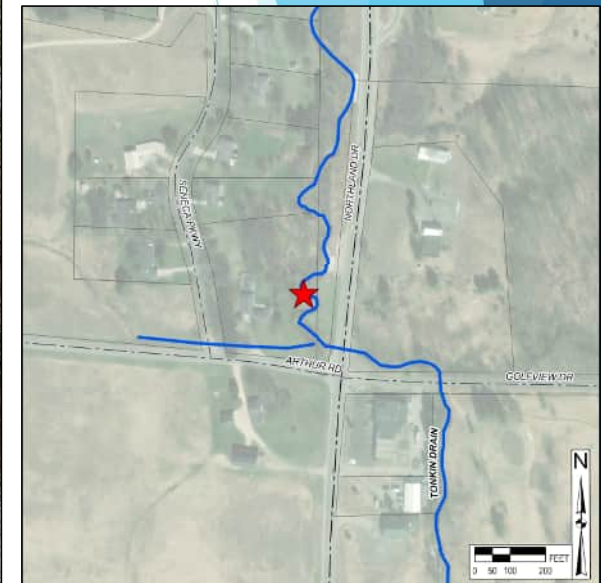
Crossing Replacements - Private



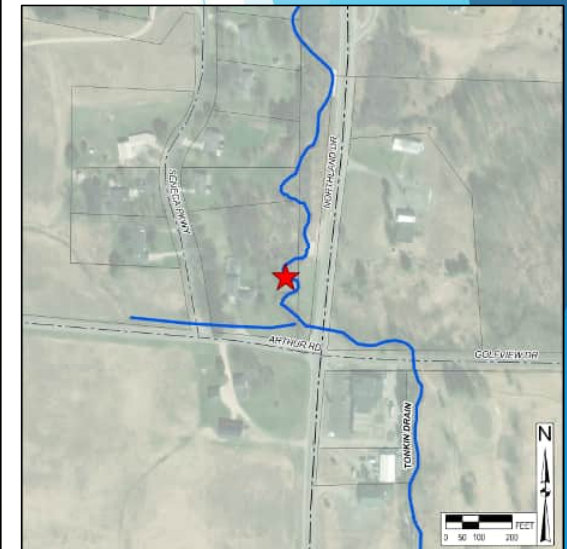
Crossing Replacements - 13 Mile Rd



Erosion and Property Damage



Erosion and Property Damage



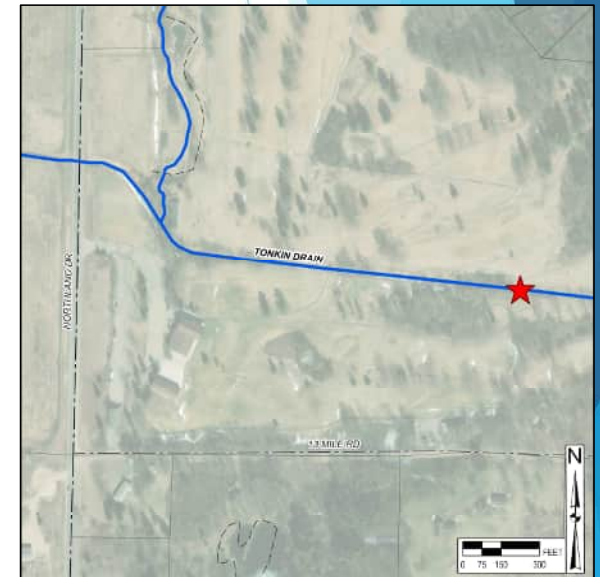
Flooding



Flooding



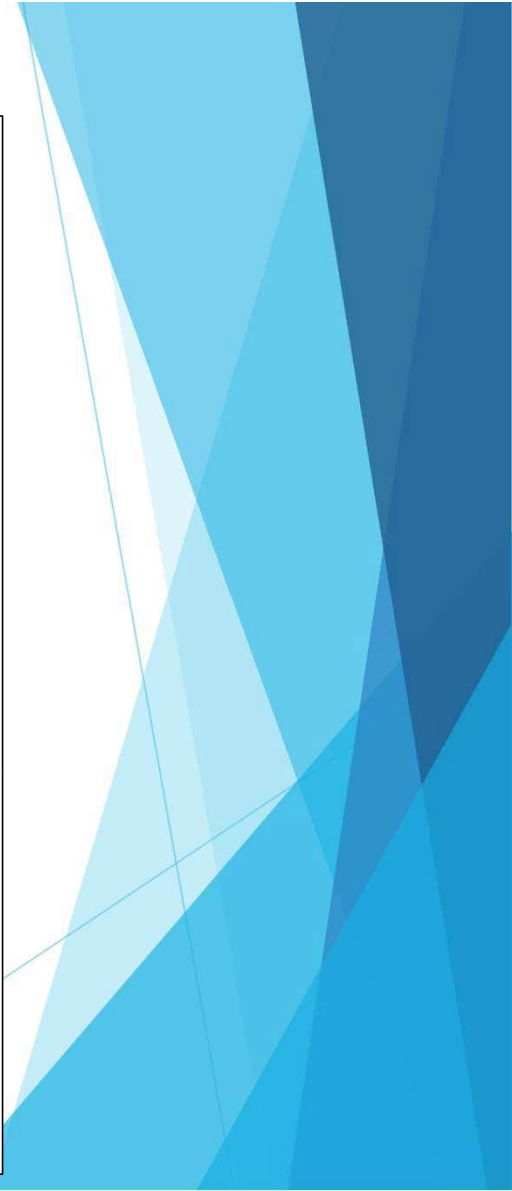
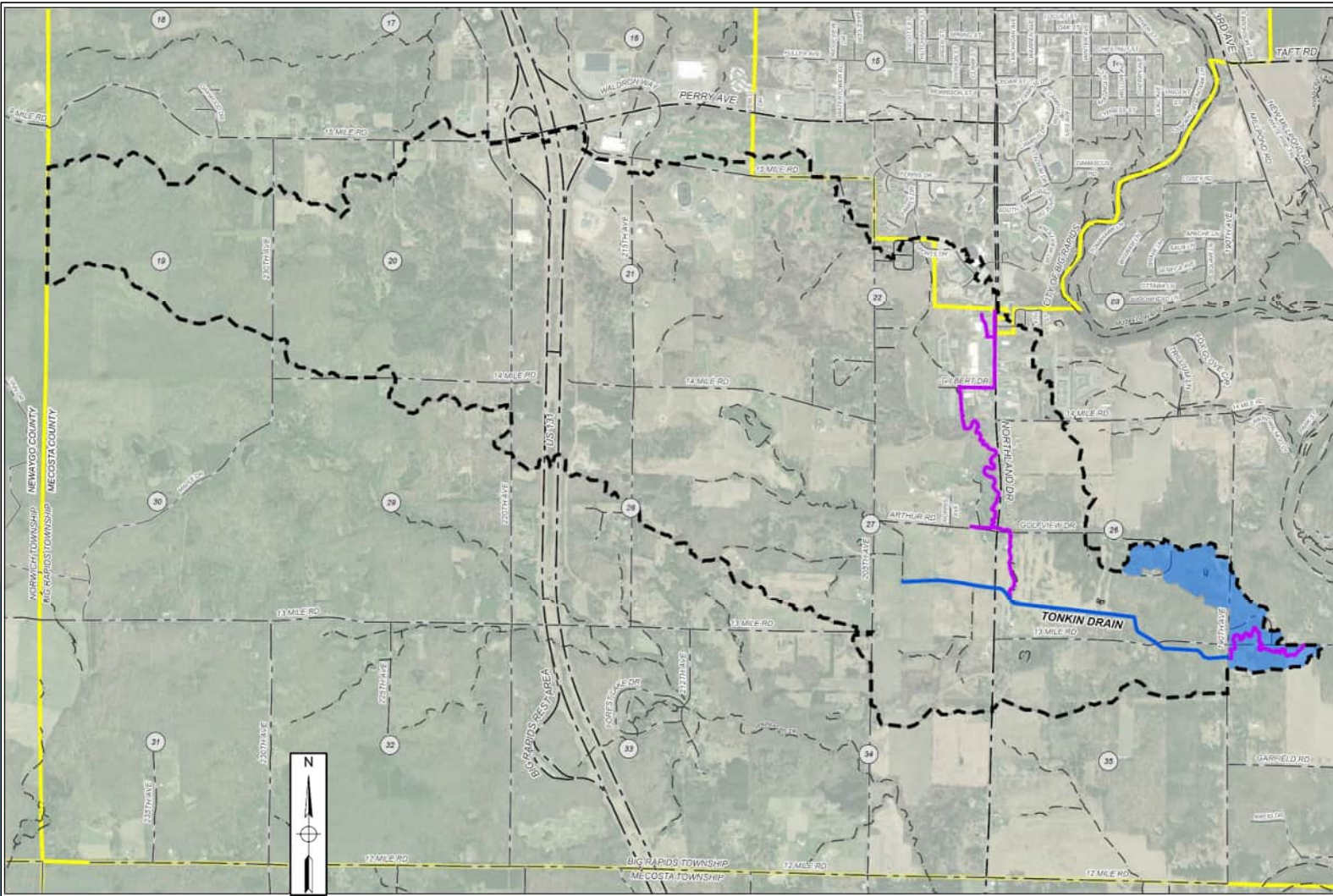
Flooding



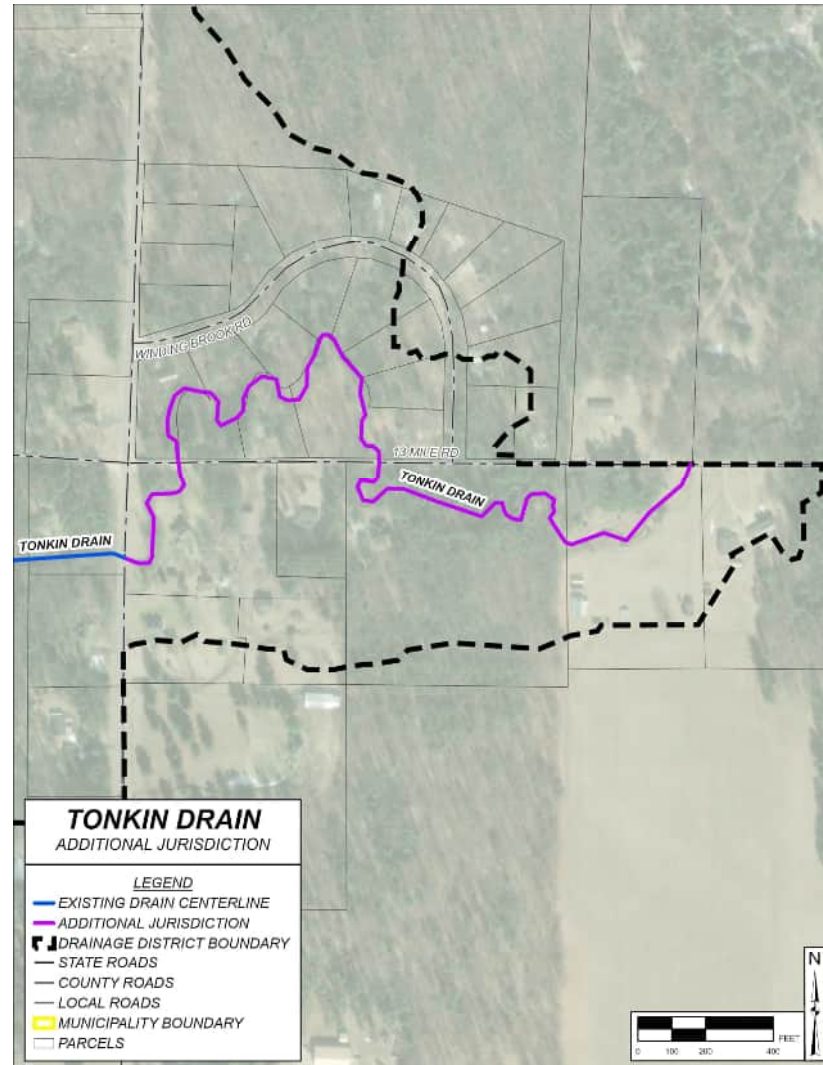
Extension and Branches Added to an Established Drain

- ▶ Additions Overview
- ▶ No Jurisdiction to Perform Work on Outlet
- ▶ Existing Watercourses and Storm Sewer
- ▶ Formally Adding as Branches and Extensions to Tonkin Drain

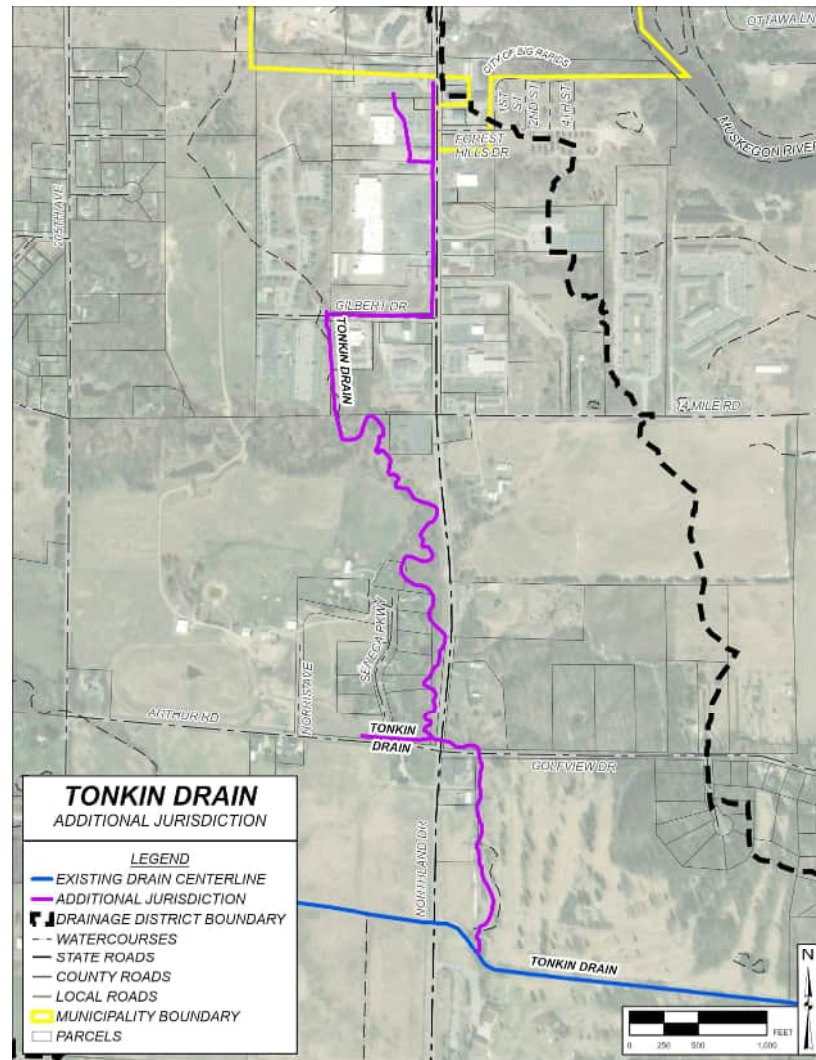
Additions Overview



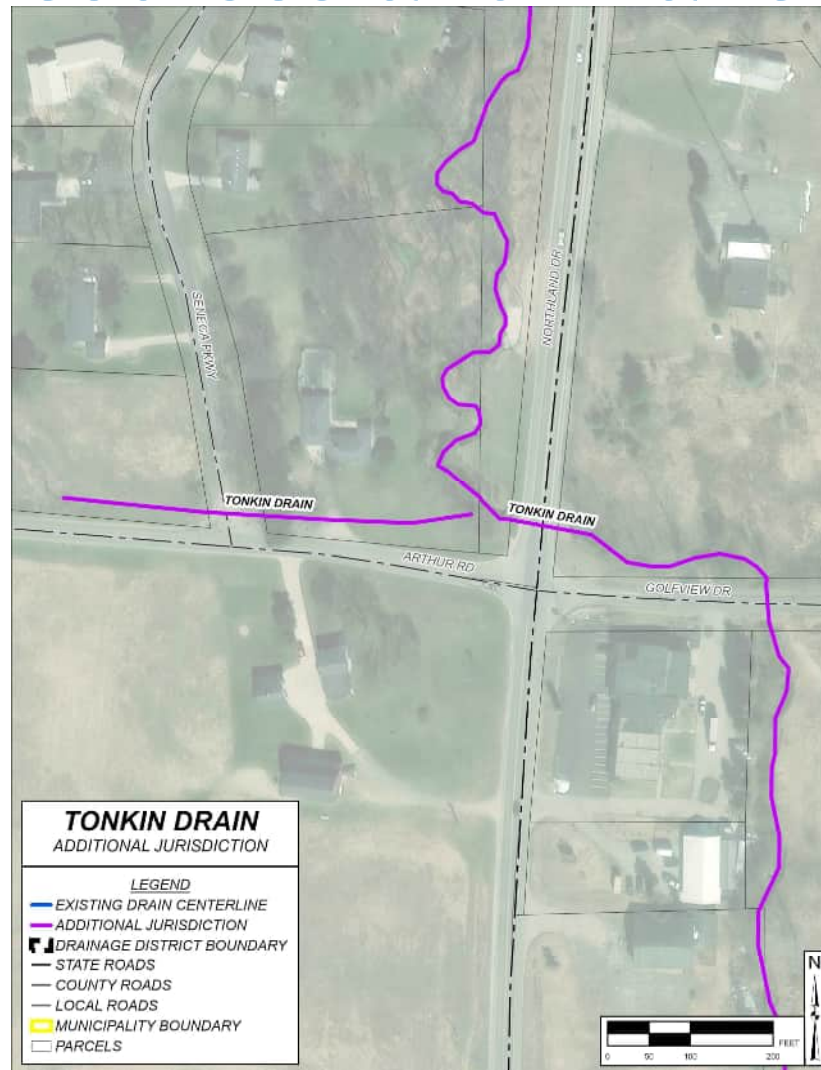
No Jurisdiction to Perform Work on Outlet



Existing Watercourse and Branches



Existing Watercourses and Branches



Assessments

- ▶ **Michigan Department of Transportation (MDOT)**
 - ▶ Benefit to State Highway
 - ▶ Supplemental Benefits
- ▶ **Mecosta County**
 - ▶ Benefit to County Roads
- ▶ **Big Rapids Charter Township**
 - ▶ At-Large for Public Health
- ▶ **City of Big Rapids**
 - ▶ At-Large for Public Health

Property Owner Assessments

- ▶ Base Benefit
- ▶ Acreage
- ▶ Land Use
- ▶ Corridor Branch Zone
- ▶ Winters Creek Branch Zone



Estimated Project Cost

- ▶ \$6 million (+/-)
- ▶ MDOT
- ▶ Mecosta County
- ▶ City of Big Rapids
- ▶ Big Rapids Charter Township
- ▶ Property Owners

Estimated Project Cost

▶ **MDOT**

- ▶ Estimated Supplemental Benefit \$1.3 Million
- ▶ Estimated State Highway Benefit 5.5%

▶ **Mecosta County**

- ▶ Estimated County Road Benefit 17%

Estimated Project Cost

- ▶ **City of Big Rapids**
 - ▶ Estimated At-Large 1%
- ▶ **Big Rapids Charter Township**
 - ▶ Estimated At-Large 9.9%



Estimated Project Cost

- ▶ **At-Large Assessments and Supplemental Total**
 - ▶ \$ 2.8 Million (+/-)
- ▶ **Property Owners**
 - ▶ \$ 3.1 Million (+/-)
- ▶ **15 Years**

Timeline

- ▶ Bid Opening - April 8, 2025 at 10:00 AM
- ▶ Webinar - April 30, 2025 at 6:00 PM
- ▶ Day of Review - May 8, 2025, 9:00 AM - 5:00 PM
- ▶ Construction Estimated to Begin - Summer 2025
- ▶ Estimated Completion - Fall 2026

Webinar

- ▶ April 30, 2025 at 6:00 PM
- ▶ Link included on Day of Review Notice
- ▶ Meeting QR Code:



Day of Review of Apportionments and Drainage District Boundaries

- ▶ Thursday, May 8, 2025
- ▶ 9am-5pm
- ▶ County Building
14485 Northland Drive, Big Rapids
- ▶ Opportunity to meet with Drain
Commissioner/Staff and engineers



Contact Information for Questions

▶ Mecosta County Drain Commissioner

▶ Karla Miller - (231) 592-0103, drain@mecostacounty.org

▶ During Construction

▶ Charles R. Smith, P.E., C.F.M. - (586) 383-8244

Charless@spicergroup.com