

Emmons Lake Drain

Board of Determination Meeting
August 18, 2022

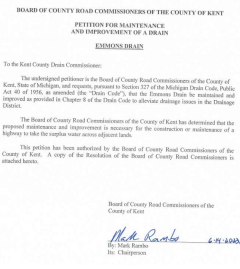



Ken Yonker
Kent County Drain Commissioner

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Why Are We Here?

- **Petition** filed by Kent County Road Commission on June 14, 2022 for *Maintenance and Improvement*
- **Michigan Drain Code** (Public Act 40 of 1956) mandates a Board of Determination meeting
- **Board** composed of 3 disinterested property owners from outside of affected municipalities
- Determine **necessity** based on public health, convenience or welfare after hearing testimony



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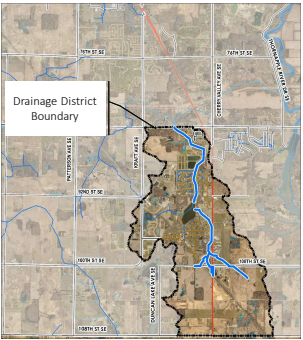
Please Note:

- Function of the Board of Determination is **to determine whether a problem exists and whether a project is necessary.**
- If voted necessary, then the drain commissioner is responsible for assessing possible solutions.
- This hearing **does not** address scope or corresponding costs of any potential project.
- No project has been decided; **no assessments known.**

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Emmons Lake Drain

- Established in 1874, Extended in 1902, 1939, and 2013
- 19,008 feet long (3.6 miles)
- Drainage District Area: 2,289 acres (3.5 square miles)

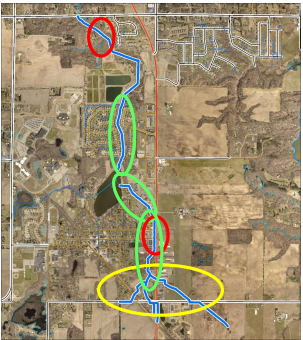


Aerial map showing the drainage district boundary for Emmons Lake Drain. The boundary is outlined in black and includes several streets: 19th St SE, 20th St SE, 21st St SE, 22nd St SE, 23rd St SE, 24th St SE, 25th St SE, 26th St SE, 27th St SE, 28th St SE, 29th St SE, 30th St SE, 31st St SE, 32nd St SE, 33rd St SE, 34th St SE, 35th St SE, 36th St SE, 37th St SE, 38th St SE, 39th St SE, 40th St SE, 41st St SE, 42nd St SE, 43rd St SE, 44th St SE, 45th St SE, 46th St SE, 47th St SE, 48th St SE, 49th St SE, 50th St SE, 51st St SE, 52nd St SE, 53rd St SE, 54th St SE, 55th St SE, 56th St SE, 57th St SE, 58th St SE, 59th St SE, 60th St SE, 61st St SE, 62nd St SE, 63rd St SE, 64th St SE, 65th St SE, 66th St SE, 67th St SE, 68th St SE, 69th St SE, 70th St SE, 71st St SE, 72nd St SE, 73rd St SE, 74th St SE, 75th St SE, 76th St SE, 77th St SE, 78th St SE, 79th St SE, 80th St SE, 81st St SE, 82nd St SE, 83rd St SE, 84th St SE, 85th St SE, 86th St SE, 87th St SE, 88th St SE, 89th St SE, 90th St SE, 91st St SE, 92nd St SE, 93rd St SE, 94th St SE, 95th St SE, 96th St SE, 97th St SE, 98th St SE, 99th St SE, 100th St SE. The drain itself is shown as a blue line winding through the area.

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Recent Work

- 2017 - Channel Clearing
- 2019 - Channel Clearing
- 2020 - Open Channel Cleanout
- 2020 - Replaced culverts under Emmons Street and Main Street with 16 foot by 7 foot box
- 2021 - Replaced private culvert under Bretonwood Drive
- Misc. erosion repairs



Aerial map showing recent work locations along the Emmons Lake Drain. The drain is highlighted in blue. Red circles highlight culvert replacement locations under Emmons Street, Main Street, and Bretonwood Drive. A yellow oval highlights erosion repair locations. A green line follows the drain's path.

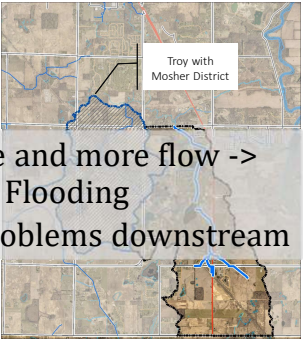
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Troy with Mosher and Farnham Drain

- Channel clearing and excavation
- Upsized culverts

**Better conveyance and more flow ->
Reduced Flooding**

But there are still problems downstream



Aerial map showing the Troy with Mosher and Farnham Drain area. The drain is highlighted in blue. A white box labeled 'Troy with Mosher District' is overlaid on the map.

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Downstream Issues



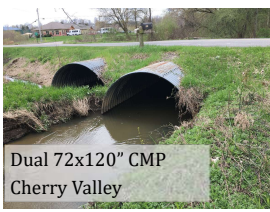
Erosion
(occurred before upstream improvements)

Portion of

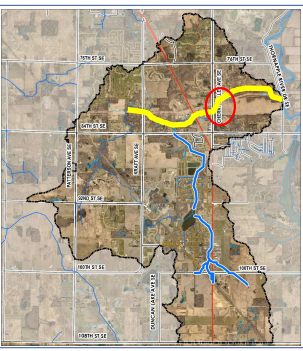


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Downstream Issues




Dual 72x120" CMP
Cherry Valley

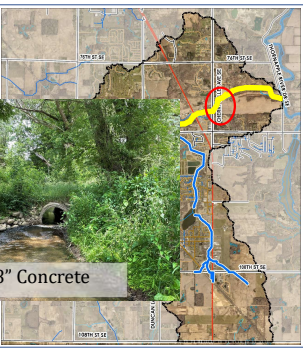


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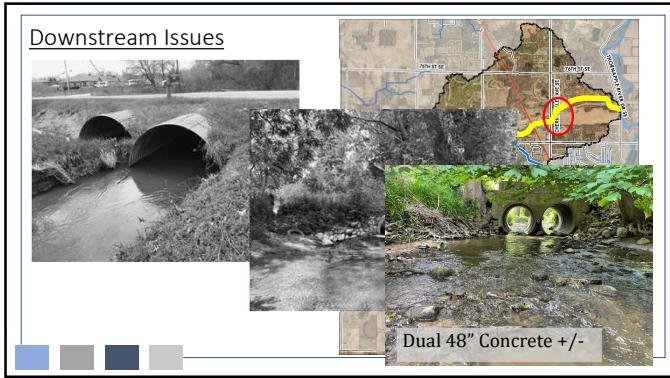
Downstream Issues



Single 48" Concrete



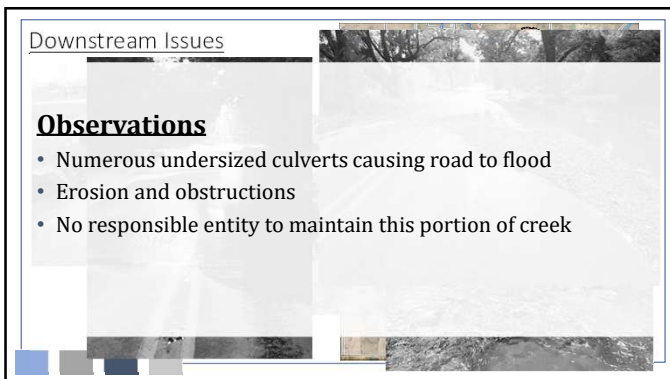
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Buffer Strip Program

- Vegetative strip along drains
- Filter sediment, fertilizers, pesticides before water reaches the drain.
- Reduces need for maintenance which reduces how often we assess
- Requires signed "Buffer Strip Agreement" -> Approved buffer strips qualify for reduced assessment

Contact Ken Yonker at 632-7910 with questions

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    graph LR
      A[Reduced Sediment] --> B[Less Maintenance]
      B --> C[Lower Assessments]
  
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Reminder

- Function of the Board of Determination is to decide whether a problem exists and whether a project is necessary.
- If the Board finds the proposal necessary, then the drain commissioner determines possible solutions.
- No engineering work has been completed and no projects are identified today
- No costs or assessments have been determined

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Public Comment

- Please state your name and address clearly
- Direct comments to the Board
- Limit comments to 3 minutes

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Next Steps

- Public Testimony
- Board to Determine Necessity of Petition
- If Petition Deemed "Not Necessary"
 - Process ends
- If Petition deemed "Necessary"
 - Evaluate scope of work needed
 - Obtain required permits and bid any maintenance
 - Day of Review of Apportionments



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Kent County Drain Commission
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616-632-7910



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