

CITY OF MINNETRISTA



CITY COUNCIL WORK SESSION ITEM

Subject: Discussion of Miscellaneous Drainage Items

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Meeting Date: August 4, 2025

Background:

At the June 2, 2025 Work Session a few drainage items were discussed and City Council directed staff to come back with additional information.

1. Minneapolis Avenue (two locations)

There is a storm sewer system that conveys discharge from the pond located at 1040 Bayside Lane (west end of Minneapolis Avenue) to Lake Minnetonka. Re-placing the rip rap in the outlet area is recommended for better flow.



Figure 1. Storm system at 1040 Bayside Lane



Figure 2. Bayside pond outlet to Lake Minnetonka

At the work session council asked if there's a way to make the residents of Bayside responsible for the maintenance of the pond since the pond only receives runoff from Bayside Lane. The City Attorney indicated that the Bayside Homeowners Association would need to agree to maintain the pond.

The second area is the fire lane south of Minneapolis Avenue, west of Crest Ridge Court. There are several rock pools along the length of the channel that serve to slow down water and reduce erosion. The last 70 feet or so of the east side of the channel is eroding.

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To address the issue it is proposed to install riprap so that water would pool upstream of the rip rap, slowing down the erosive forces of the drainage.

The recommended budget for this work is \$49,000. Staff reached out to Minnehaha Creek Watershed District to see if they would be willing to participate in the cost of the proposed work in the fire lane.



Figure 3. Fire Lane on Minneapolis Avenue



Figure 4. Erosion in the channel in the fire lane (looking south)

2. CR 110 and CR 151

The discharge from the culvert under CR 151 at 810 CR 110 has caused some erosion along the property line. Hennepin County asset management indicates that this is not an issue for them to fix. As shown in Figure 5 there is a sanitary sewer manhole in the area that is susceptible to inflow. To address the issue, the vegetation in the drainageway would be removed and some rip rap placed to dissipate some of the energy from the runoff. The recommended budget for this work is \$82,000. Staff submitted a request to Hennepin County to cost share for this project. The County will respond in December as they are evaluating funding requests from all Hennepin County communities at this time.



Figure 5. Storm (green) and sanitary (red) sewer at CR 110 & CR 151



Figure 6. Storm sewer outlet at the southeast corner of CR 110 & CR 151

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3. 905 Bayside Lane

At the October 7, 2024 Work Session there was discussion about the drainage at 905 Bayside Lane based on the property owner's concern. Some of the neighbors attended the June 2, 2025 work session to share issues on their property as well. Based on LiDAR contour elevations, the grade of the common rear lot lines of Jennings Cove Road and Bayside Lane drains from north to south. The drainage issue appears to stem from overland drainage over hundreds of feet without a storm sewer inlet, and clay soils that don't readily absorb the runoff.

Public storm sewer exists within Bayside Lane (to the east) and Jennings Cove Road (to the west). Existing public storm sewer is shown in green in Figure 7. The storm sewer as-built plan for Jennings Cove Road includes a hand-drawn depiction of a storm sewer between 880 and 890 Jennings Cove Road with a handwritten note "12" PVC?". There is no record that this is a public storm sewer and the adjacent resident has not granted permission for others to connect to it. The assumed alignment of the pipe and the approximate location of the catch basin are shown as the yellow dashed line in Figure 7.

The owner of 925 Bayside Lane indicated that the city installed storm sewer to their property in 2000 or 2001, but that the storm sewer has collapsed and no longer conveys drainage.

Based on the information available staff proposes to:

1. Extend a public storm sewer between 880 and 890 Jennings Cove Road,
2. Install a storm sewer inlet to capture ~500' of overland flow,
3. Extend 10' storm sewer stubs to the north and south of the inlet. This would allow residents to work together to extend additional storm sewer to the north and/or south of the city system. License agreements would be required for any private storm sewer within drainage and utility easements. Staff recommends that the license agreements state that the 10' storm sewer stubs installed by the city be privately owned and maintained.

According to information in the city's building files the proposed city storm sewer (listed in #1, above) would be installed within a 10' wide drainage and utility easement (5' each on 880 and 890 Jennings Cove Road). This pipe may conflict with the existing pipe in the area, so the options are for the existing pipe to be removed as the city has a need to use the public drainage and utility easement, or the adjacent homeowner could allow the city to take ownership and maintenance of the existing storm sewer.

Residents provided staff sketches showing the approximate location of their drainage issues. It is anticipated that the proposed city storm sewer will be low enough for residents to connect their private systems.

The existing storm sewer system within Jennings Cove would need to be evaluated to determine if it has capacity for the additional runoff.

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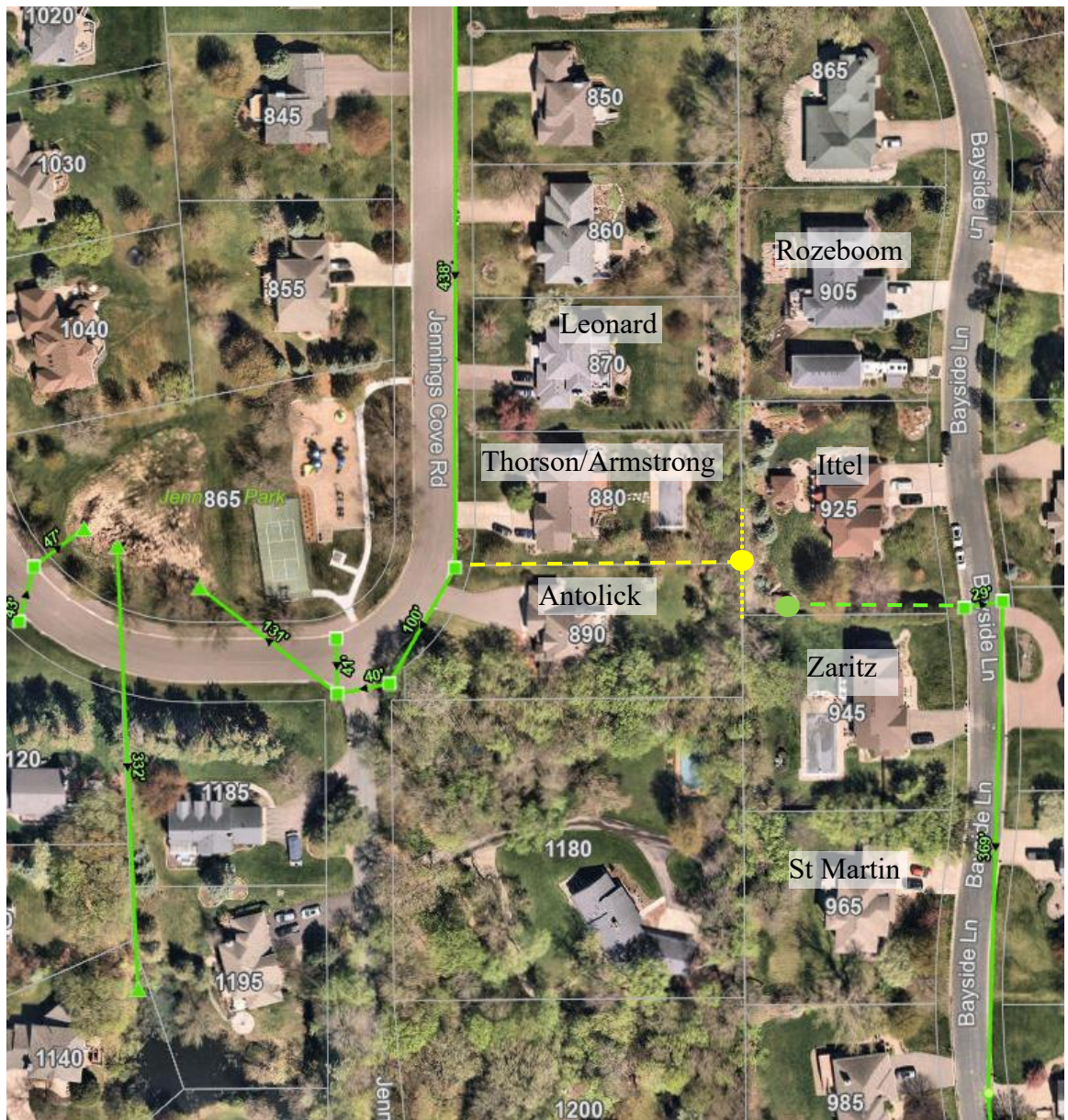


Figure 7. Storm sewer in the area of 905 Bayside Lane

Legend

- City-owned and maintained storm sewer
- - - City-installed storm sewer (installed 2000/2001); collapsed
- Existing private storm sewer inlet
- - - Assumed alignment of storm sewer / Proposed alignment of new city storm sewer
- Approximate location of catch basin on 880 Jennings Cove Road / Proposed city storm sewer inlet
- Proposed 10' storm sewer stubs (privately owned & maintained)

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The recommended construction budget for this option is:

- \$0, if
 1. The owner of 890 Jennings Bay Cove agrees to convey the existing pipe, and
 2. The inlet to the City the existing pipe has sufficient capacity, and
 3. The elevation is low enough to serve the Bayside Lane properties.
- \$35,000 to install 12" PVC between 880 and 890 Jennings Cove Road, a catch basin at the property corner, and install 10' storm sewer stubs to the north and south. This estimate assumes that there's existing pipe between 880 and 890, and therefore includes the cost to remove the pipe and restoration of the area.

4. D'Chene Lane

Staff met with some of the residents on the south side of D'Chene to discuss their concerns with the erosion taking place on their property. Based on the contour data shown in Figure 8 the average slope extending from the road is 25%, with slopes behind the homes as steep as 45%.



Figure 8. Grades along D'Chene Lane

Staff is not aware of any public storm sewer in this area. Approximately 185' of the road drains to the low point at 6965 D'Chene, and approximately 200' drains to the low point between 6885 and 6925 D'Chene. The drainage is eroding the channel as shown in Figures 9 and 10. Residents have safety concerns with the erosion and tree loss within the channel and are asking the city to stabilize the channel.

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Figure 9. Erosion south of D'Chene Lane



Figure 10. Erosion south of D'Chene Lane

At the June 2 work session, council requested a budget to install stilling basins at the low points of the road and install a couple of check dams. The budget for this work is \$21,000. The water resources engineer that assists staff indicated that the downstream ravine would likely continue to erode and could ultimately undermine the stilling basins. If ravine restoration is included in a project and additional \$170,000 budget is recommended.

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