

CITY OF MINNETRISTA



CITY COUNCIL WORK SESSION ITEM

Subject: Discussion of Miscellaneous Drainage Items

Prepared By: Gary Peters, Public Works Director
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Meeting Date: September 15, 2025

Background:

At the August 4, 2025 meeting City Council prioritized the drainage items as follows:

1. 905 Bayside Lane

The owners at 905 Bayside Lane and their neighbors are experiencing drainage issues. Figure 1 shows the storm sewer in the area. The storm sewer on the south side of 905 Bayside Lane collapsed last year and was too high to address the needs of the property.

The owners of 880 Jennings Cove Road are amenable to the city taking ownership and maintenance of the storm pipe between 880 and 890 Jennings Cove Road. The storm pipe does not lie on the property line; it skews to the northeast to avoid conflict with the well on 890 Jennings Cove Road. This pipe was televised and appears to be in good condition.

Based on the information available the following is recommended:

1. Acquire additional easement to document the city taking ownership of the storm pipe between 880 and 890 Jennings Cove Road,
 2. Install a new inlet structure at the east end of the pipe between 880 and 890 Jennings Cove Road,
 3. Install ~16' of storm sewer and one inlet to capture ~500' of overland flow,
 4. The downstream storm sewer is being modeled to determine if there is capacity to redirect the Bayside Lane rear drainage to the storm sewer in Jennings Cove.
- Additional details need to be added to the storm sewer capacity model to verify.

The drain tile exiting the house is underground therefore we are unable to determine if it can drain by gravity to the storm sewer to the west. Based elevation data acquired by Public Works, the bottom of the drainage pit in the shed at 905 Bayside is approximately two feet lower than the storm sewer elevation in Jennings Cove Road. If the drain tile is at the same elevation of the bottom of the drainage pit a sump pump will always be necessary.

Estimated construction cost is \$15,000.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

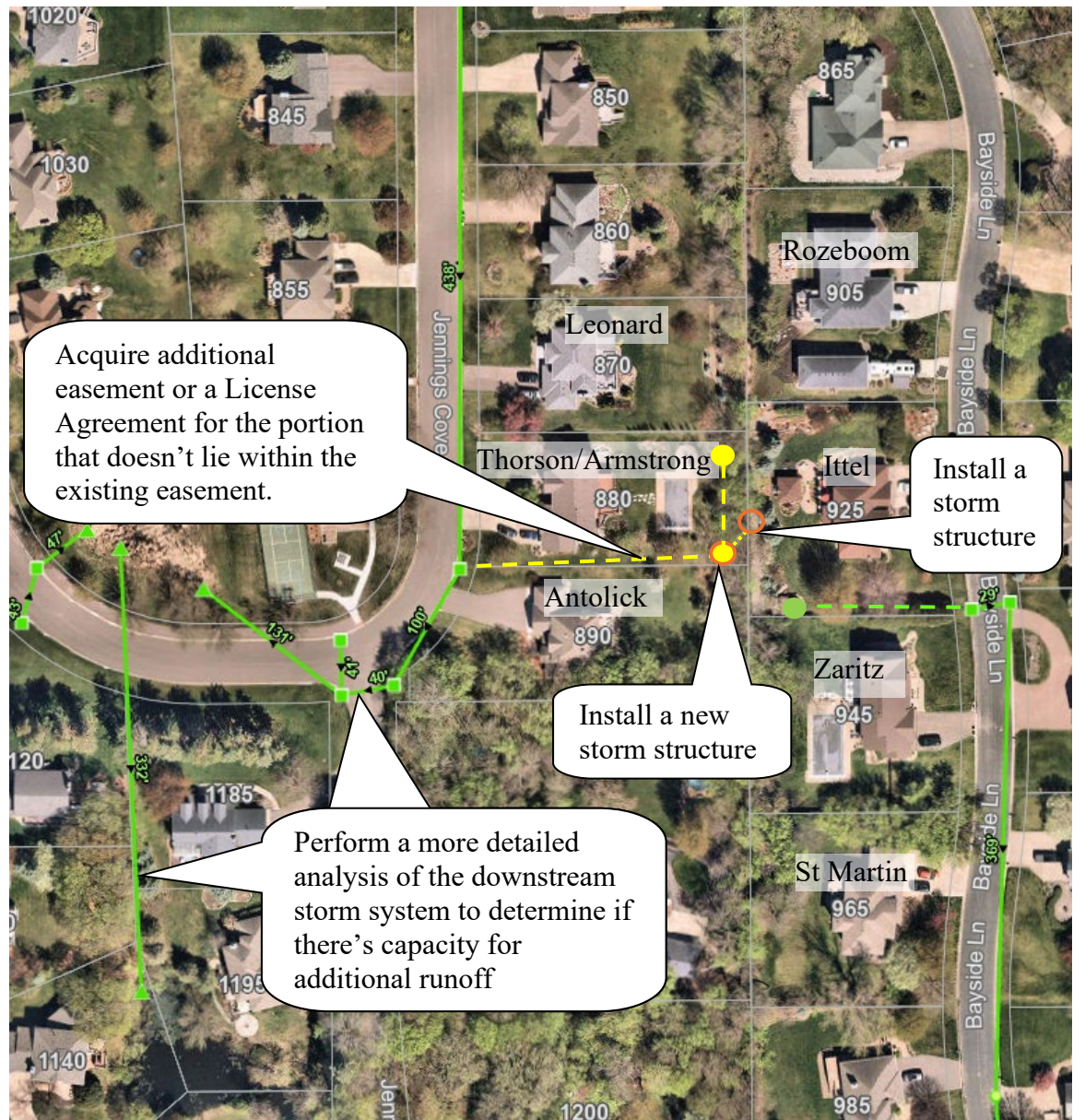


Figure 1. Proposed work to alleviate drainage issues on the west side of Bayside Lane

Legend

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

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2. Minneapolis Avenue (two locations)

The 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.

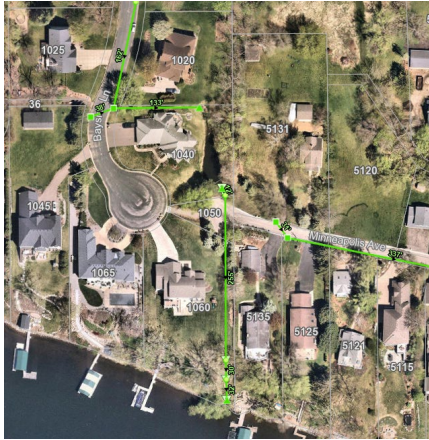


Figure 2. Storm system at 1040 Bayside Lane



Figure 3. Bayside pond outlet to Lake Minnetonka

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



Figure 4. Fire Lane on Minneapolis Avenue



Figure 5. Erosion in the channel in the fire lane (looking south)

The Minnehaha Creek Watershed District partnered with the city on the initial project in the fire lane in 2011. The agreement states that the city is responsible for maintenance therefore the watershed district will not participate in a cost share.

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The recommended budget for this work is \$49,000. WSB is preparing an exhibit that staff can use to get a quote to do this work.

3. I&I into Sanitary Sewer

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. 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. City Council direction is to wait until the county has determined if they will share the cost.



As shown in Figure 6 there is a sanitary sewer manhole in the area that is susceptible to inflow and infiltration (I&I). Staff will get a quote to address the I&I issue.

Figure 6. Storm (green) and sanitary (red) sewer at CR 110 & CR 151

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