



Memorandum

To: John Harrenstein, City Administrator
From: Daniel R. Sarff, P.E., City Engineer
Nathan Host, Public Works Director
Date: October 9, 2018
Subject: North Mankato Ravine Management Master Plan

City staff has been working on the development of strategies and a process to evaluate the condition of the ravines within and adjacent to the City. In general, we envision the overall process for developing the Ravine Management Master Plan as follows:

- Establish ravine identification/numbering system
- "Office" data collection - collect and document existing information for each ravine segment that can be obtained from existing city and county mapping, previous construction plans, and other sources
- "Field" data collection - perform field inspections of ravine segments to evaluate existing conditions. The following are examples of some of the field information that may be collected:
 - Condition of ravine/channel bottom
 - Degree of vegetation
 - Extent of foundation/sump pump drain lines extended to bottom
 - Extent of surface runoff over top of ravine
 - Slides/sloughs and location

Note: due to the number of ravines within and adjacent to the City and the time that will be required to conduct the field investigations, it is anticipated that the completion of the field inspections of all the ravine systems will take multiple years, and that the ravines will be prioritized for inspection based on previously identified problems

- Identify improvements required to address the deficiencies and develop cost estimates
- Prioritize improvements based on extent of deficiencies, risk to adjacent properties, environmental impacts, and other factors.
- Incorporate into annual maintenance budgets and/or long-range capital improvement plans

Although we are still in the initial stages of the office data collection process, we thought it would be helpful to provide the Council with an overview of the proposed process and to receive input before progressing too far.

Attached to this memo are several exhibits:



CITY OF NORTH MANKATO

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- Two maps showing the ravine systems within and adjacent to the City and demonstrating identification/numbering system
- Spreadsheet showing some of the information that will be collected from existing maps and plans and during the field inspections.

Nate Host and Dan Sarff will be available at the October 15 City Council meeting to review this with the Council, answer questions, and accept comments/input.





