2023 CCWMO Project Review

TIM SUNDBY

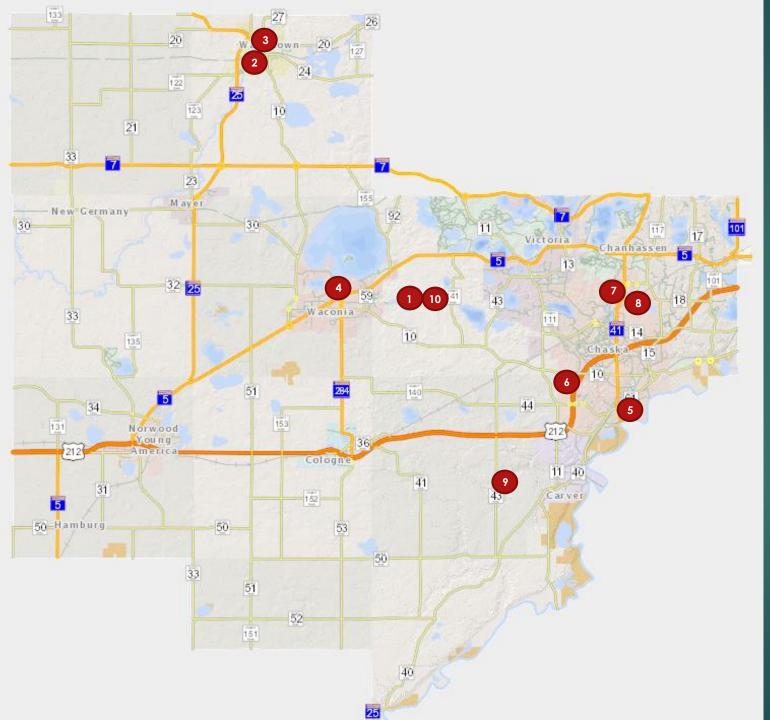
WATER RESOURCES SUPERVISOR

WMOAC MEETING

SEPTEMBER 26, 2023

Tonight's Presentation

- Review of 6 projects completed in 2023
- Review of 4 feasibility studies completed in 2023
- Review of total costs and funding amounts for each project
- Drone Flights



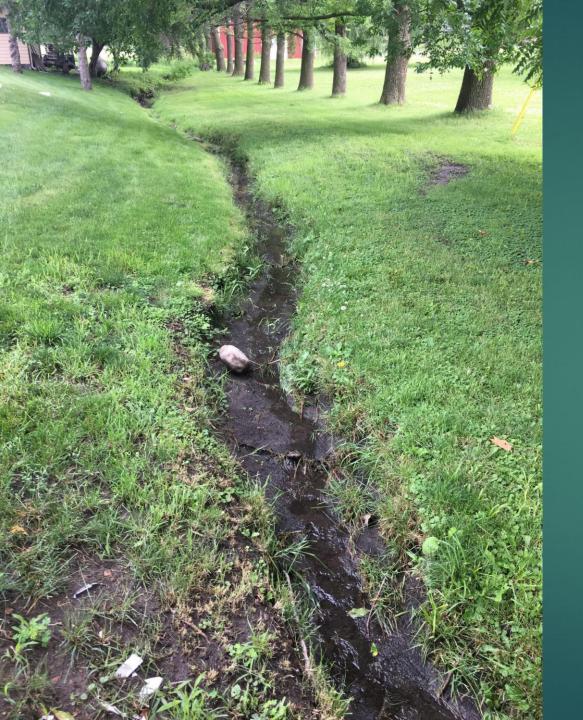
Legend

- 1 Reitz Lake Ravine Project
- 2 Watertown Streambank Project
- ▶ 3 South Fork Crow River Turf to Native
- ▶ 4 Lower Minn Turf to Native
- 5 Courthouse Buffer Project
- ▶ 6 Chaska Creek Remeander Phase 2
- ▶ 7 Big Woods Goldfish Feasibility Study
- ▶ 8 Big Woods Ravine Concept
- 9 Carver Creek Bank Stabilization Feasibility
 Study
- ▶ 10 Reitz Lake Ravine Concept

Reitz Lake Ravine Project

Background

- ▶ A ravine formed through a private resident's property from Airport Road down to Reitz Lake Road. A plan set was developed in 2021 to stabilize the ravine.
- ▶ Received a \$40,000 BWSR Grant to construct the project. Total project costs was \$48,298.80
- Update
 - ▶ This project was completed in July.







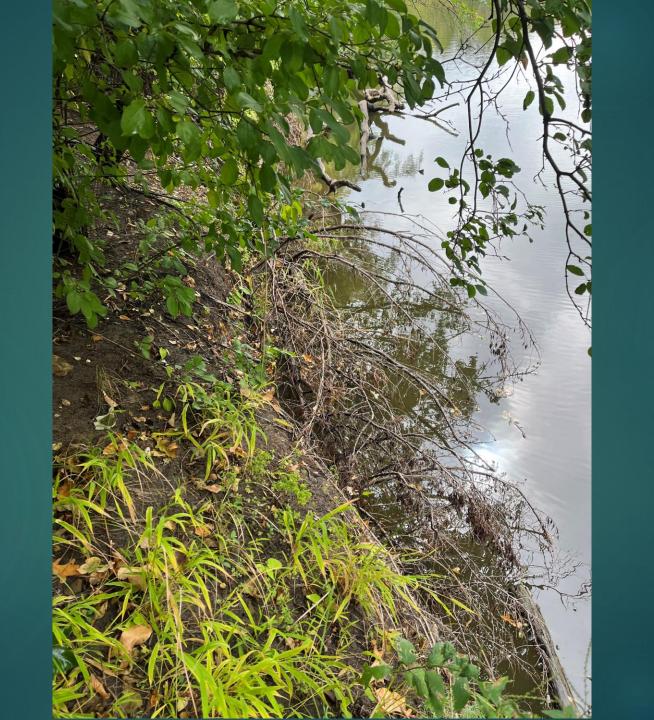
Watertown Streambank Project

Background

- ► CCWMO completed a feasibility study for the South Fork Crow River through the City of Watertown to prioritize sites that have failing banks. Through this study, one location was targeted and completed in November, 2022.
- ▶ \$24,029.83 of the project was funded by a BWSR Grant. Total project costs were \$34,384.32

Update

▶ Site inspections were completed in the spring and fall to assess how the site responded. Mortality rate of live stakes are roughly 40%, which is around what was estimated. The cedar revetments are still holding and have sediment deposition on them.



Watertown Turf to Native Sites

Background

- ▶ Three sites, totaling 9.6 acres, have undergone native prairie restoration in Watertown. This is the final year of a three-year grant, with the City of Watertown taking over maintenance of the sites to ensure that these areas are fully established.
- Received a \$40,000 grant from BWSR to complete this project. Total costs are \$54,000

- ▶ Final year of the grant. This has been a tough three year stretch to establish a prairie through seeding and plugs.
- Work with the city to ensure that these sites become established



Waconia Turf to Native Sites

Background

- ▶ Four sites, totaling 10.6 acres, have undergone a native prairie restoration in and around Waconia. Granted an extension due to staff turnover at management company, will end June 30th, 2024. The city will maintain three sites, and Carver County Parks will maintain the final site
- Received \$40,000 from a BWSR Grant. Total costs are estimated to be \$52,000.

- ▶ Each site had three visits from Prairie Restoration Inc to assess the status of the site, remove annual weeds, and decide if further work was necessary.
- ▶ These sites will be turned over to Carver County Parks and the City of Waconia at the end of June, 2024.



Courthouse Buffer Project

Background

- ▶ 2.5 acres around Courthouse Lake were transitioned from maintained turf grass to native vegetation.
- ▶ Received \$12,430 from a DNR Grant. Total costs are \$13,211.27.

- Final plantings and seeding was completed in June, with a June 30th deadline for the grant.
- Currently, CCWMO and SWCD is maintaining these sites.



Chaska Creek Remeander Phase 2

Background

- ▶ A 1,000 linear foot ditched section of West Chaska Creek was targeted to add 5 meanders and a floodplain. Phase 1 was the construction of a 100 foot wide floodplain and 5 offline meanders that was completed in 2020. Phase 2 is to finish the floodplain, including the addition of an oxbow pond, and connect the meanders to the main channel.
- ► CCWMO received a \$283,000 BWSR Grant and a \$50,000 Lower Minnesota Grant to finish the project. Total costs for Phase 2 are estimated to be \$325,000.

Update

Currently in construction, with the plan to be completed by the beginning of October. Past rain events may change that timeline.











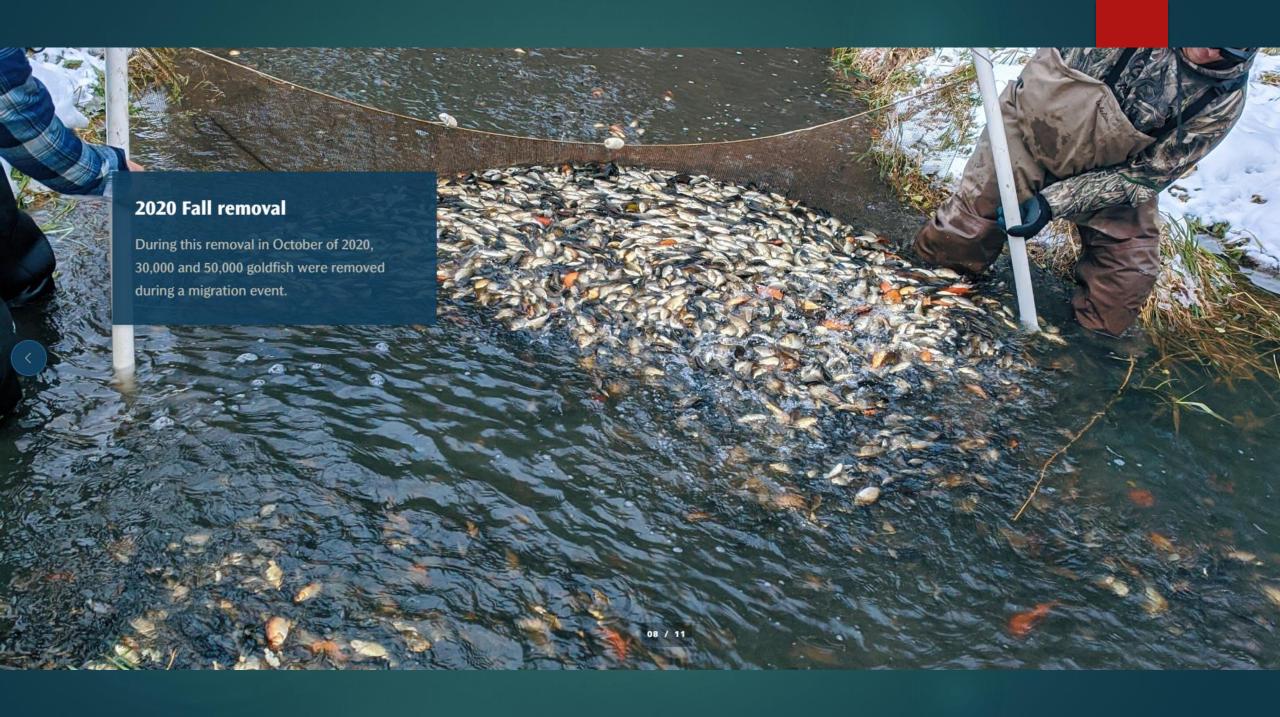
Big Woods Lake Goldfish Feasibility Study

Background

- ▶ In the spring of 2019, thousands of goldfish were identified in the inlet to Big Woods Lake. This kicked off a large public response to the presence to the goldfish in the lake and removal efforts by CCWMO Staff began.
- ▶ To help with focusing our efforts, a management feasibility study was undertaken with the help from a BWSR State Grant. The grant was for a 3-year feasibility study. The total cost of the project is \$88,000, the State Grant pays for \$80,000.

▶ Update

- A design concept was developed for this location that is ready to go out for grant funding
- Looking at the next round of Watershed Based Implementation Funding (WBIF) from BWSR to complete this project.



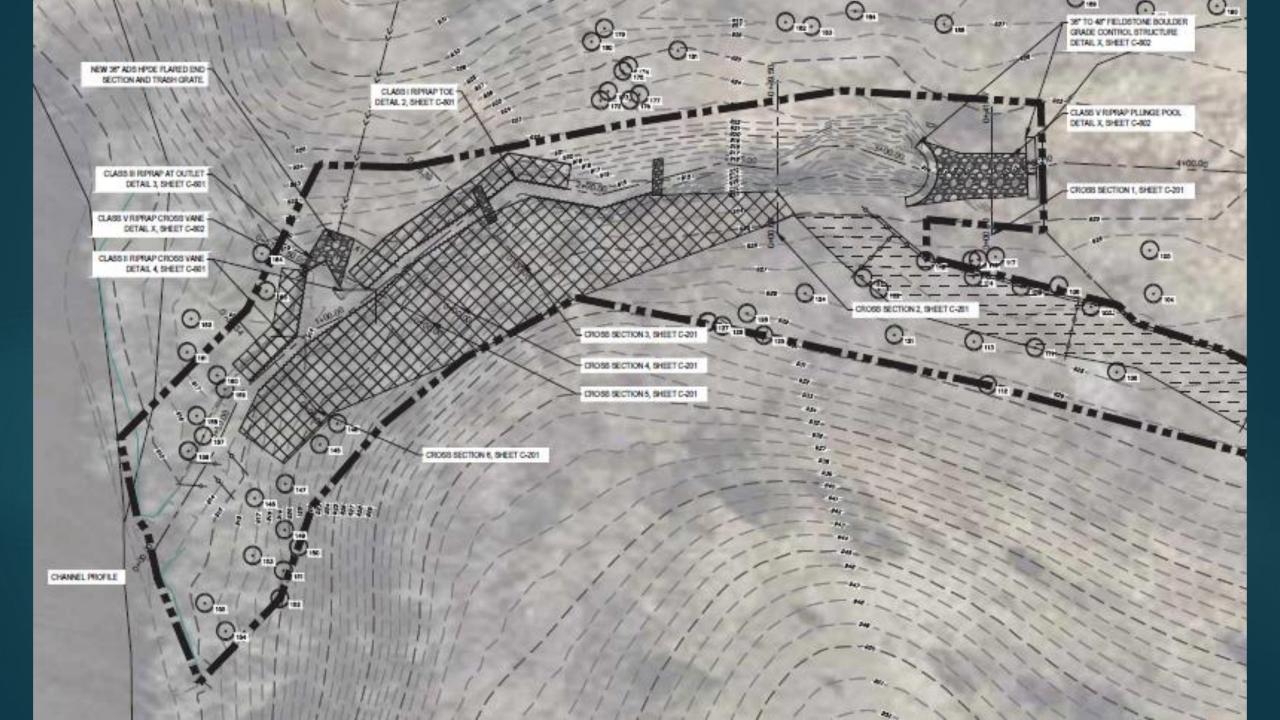
Big Woods Lake Ravine Feasibility Study

Background

- Ravine that has formed between Hwy 41 and Big Woods Lake, that over time would impact the highway
- ▶ Received a BWSR State Grant for a total of \$60,000, \$14,100 is dedicated for this project. Plan will be to work with the City of Chaska for other priority project sites.
- ▶ Total costs are \$16,508.95 with \$14,032.61 covered by grant dollars.

Update

► Field work will be completed this fall, with the final report to be due in March from WSB Engineering.



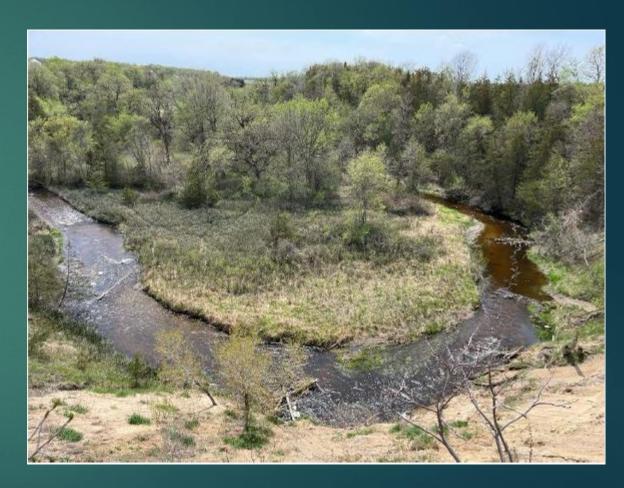
Carver Creek Feasibility Study

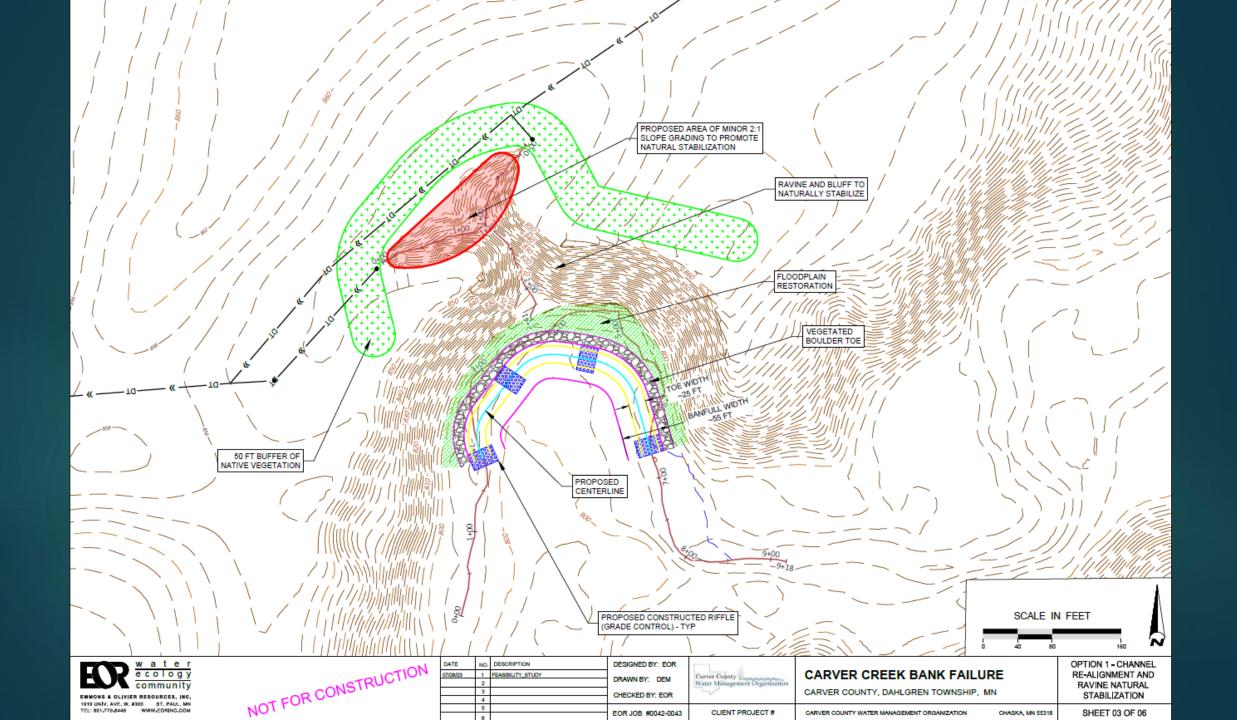
- Background
 - ▶ Site of a large bank failure in 2012
 - Received \$46,991 in state grants to fund a feasibility study
 - ► Contracted with EOR to complete the feasibility study that would include options and costs to address the erosional issues of the site.

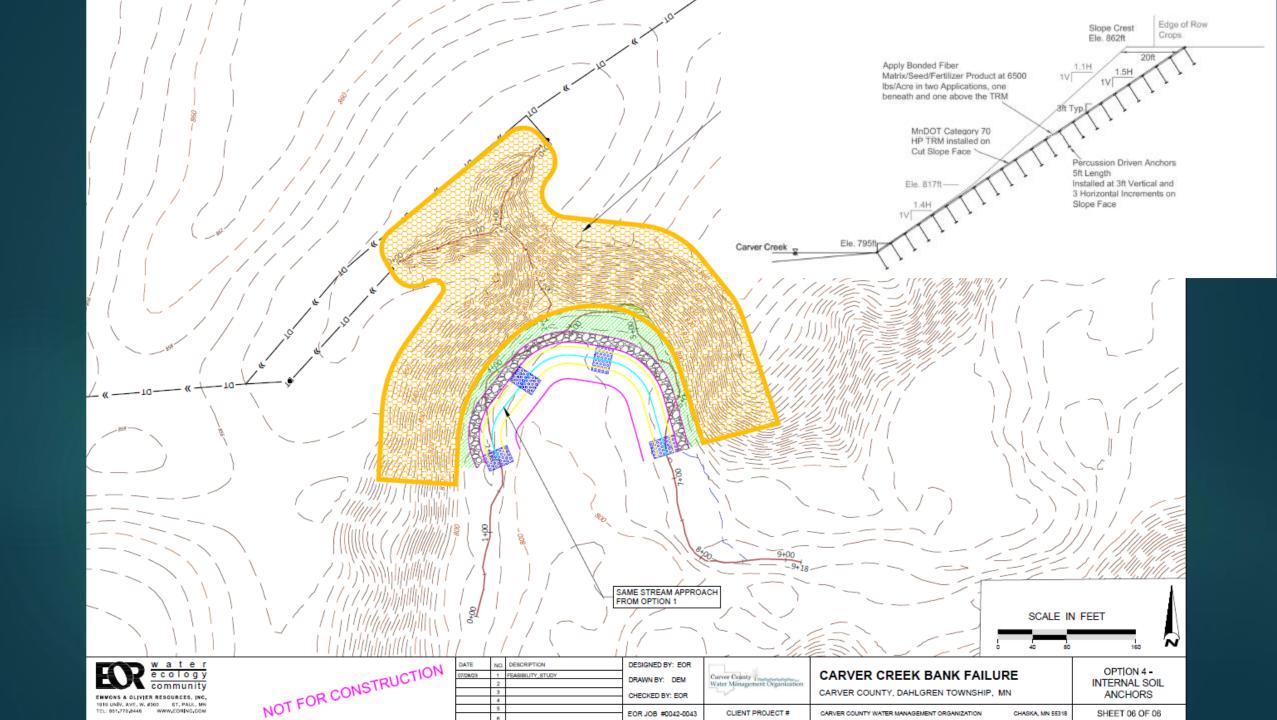


Carver Creek Feasibility Study

- Received draft study with four options to resolve the erosional issues
- ► Looking to finalize the draft by the end of October with 5 different options.
- Currently looking at two options as the best ones moving forward.
- Current costs are \$31,332.41.





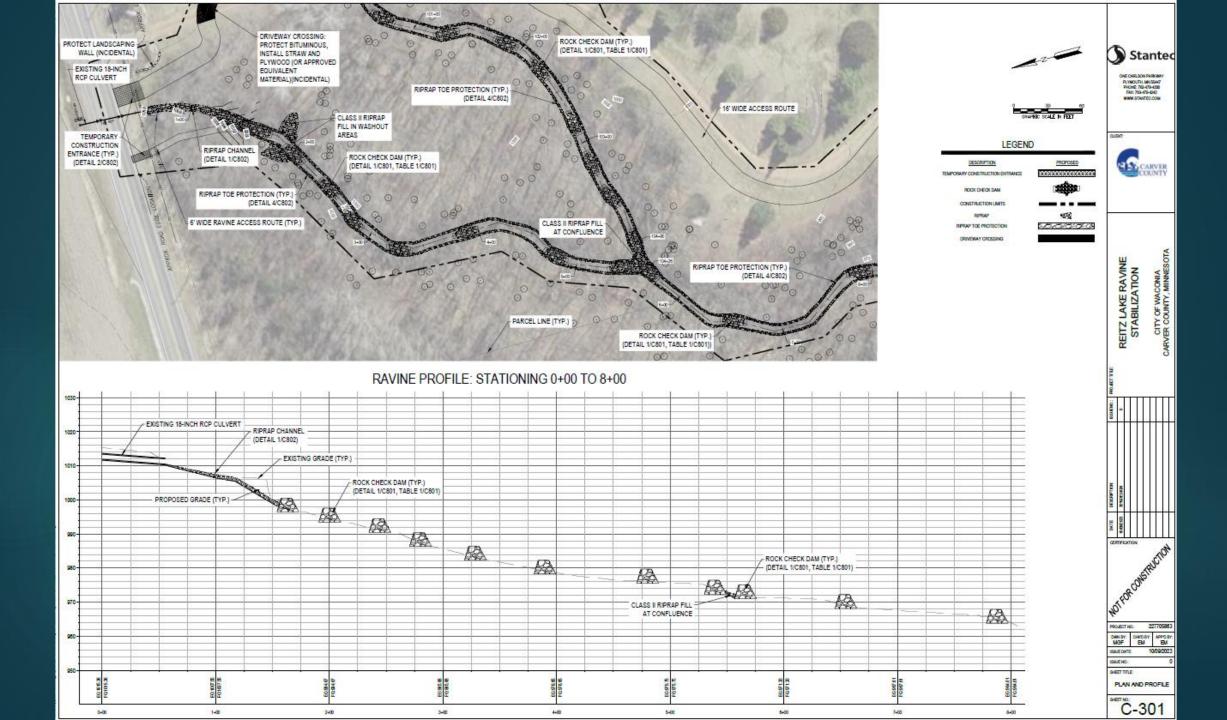


Reitz Lake Ravine Feasibility Study

Background

- ▶ A large ravine system is eroding into Reitz Lake. Since 2000, this ravine has contributed to a 1,100 square foot delta within the lake.
- ► Received a \$25,000 grant through Watershed Based Implementation Funding (Board of Water and Soil Resources). Current costs are \$25,381.07

- ► Contracted with Stantec to complete a feasibility study to stabilize the ravine and reduce the amount of sediment discharging into Reitz Lake.
- ▶ The final study will be complete by the end of October.



Youtube Videos

- Drone flights
 - Carver County Public Works has done multiple flights for us on various projects.
 - All can be found on their Youtube Channel
 - ▶ Search 'Carver County Public Works'
- Chaska Creek Remeander (5 flights)
- Bevens Dam Removal (2 flights)
- Courthouse Shoreline (1 flight)
- Watertown Wetland Bank (2 flights)

Questions



Photo by Matthew Holst/Getty Images