

Rum River Grant Initiative, Phase 1

2021 Update

Background

The Rum River Grant Initiative is a collaborative effort between ACD and Anoka County to address extensive streambank erosion along the Rum River identified in the Rum River Erosion Inventory conducted by ACD. With financial support from Anoka County, the Rum River WMOs, landowners, and letters of support from each city along the Rum, ACD applied for grants from three funding sources.

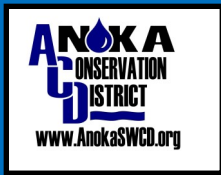
Project Types

Cedar Tree Revetments - Anoka County Parks received \$185k in grant funds from the Conservation Partners Legacy Grant program to install at least 3,600 feet of cedar tree revetment along moderately eroding banks of the Rum River. County Parks bid the installation out as an RFP. ACD bid as a contractor with 5,100 feet of revetment proposed for the project budget.

Bioengineering - ACD received \$816k in grant funds from the Outdoor Heritage Fund to install bioengineered bank stabilization projects along more severely eroding stretches where rock could be minimized and a more natural approach could be used without compromising infrastructure.

Hard Armoring - ACD received \$440k from the Clean Water Fund to install hard armoring projects at the most severe erosion sites on the Rum River. These projects require more intensive hard armoring and geotechnical solutions to tackle the biggest eroding faces.

More information about all of ACD's projects can be found at AnokaSWCD.org



Cedar Tree Revetments

Progress through 2021

ACD was contracted to install 5,100 linear feet of cedar tree revetments. That's just about one full mile! Progress to date includes:

Late fall 2020:

- 650 feet installed in Rum Central Regional Park

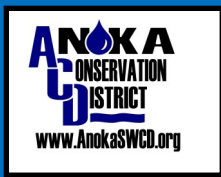
Full Season 2021:

- 695 additional feet installed in Rum Central Regional Park
- 1,130 feet installed at Cedar Creek Conservation Area
- 400 feet installed at Timber Rivers Park, Andover
- 970 feet installed along three private properties

So far, we've installed 3,845 feet (75%) and are on track to finish next year!



Cedar trees providing soft armoring to a moderately eroding bank in Rum Central Regional Park. This erosion was threatening a trail.



Cedar Tree Revetments

Looking Ahead

ACD was contracted to install 5,100 linear feet of cedar tree revetments. So far we've installed 3,845 feet (1,255 feet remaining).

2022

We plan to finish the remaining feet of installation, hopefully in the earlier part of the season if water levels allow. Potential projects exist on Park lands as well as along private lands where landowners have indicated willingness.

We should be applying for Phase 2 during the 2022 CPL applications.

Project Funding Mechanism

Anoka County contracted ACD to install 3,600 feet at a base rate of \$35/ft. ACD also proposed an additional 1,500 feet at a reduced rate of \$15/ft. utilizing landowner match to make up the cost.

No additional cost on projects done on County properties.

Projects along all other properties require landowners to pay 10% of the project cost to ACD. They also enter into a 10-year maintenance agreement with ACD to keep and maintain the project.

Anoka County local financial contribution is the 10% match to the grant itself (\$18,500). Some of that match is being utilized in-kind as Parks' CCM Crews help with installation on County properties. The remainder at the end of the grant period (end of 2022) will be cash match.

Progress through 2021

ACD received a 5-year grant in 2020 to install bioengineered streambank stabilization projects along up to 2,250 feet of eroding Rum Riverbank.

Completed Project:

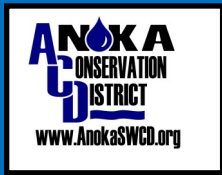
- A 400-foot bank along private property in Oak Grove was stabilized in 2021 using minimal rock armoring at the toe, regrading, planting to native vegetation, and a rock swale to provide a stable outlet for concentrated overland flow. Construction was completed in November, 2021.

On the Docket:

- A 150-foot area sloughing from a 50-foot tall bank in Andover is slated for design in winter 2021, and soft armoring and vegetation in 2022.
- A 525-foot severely eroding bank in Cedar Creek Conservation Area has been surveyed and is slated in for design, engineering, and installation in 2022.
- Other interested landowners we plan to continue work with include the Northern Star Boy Scout Camp and the City of St. Francis.



A 400-foot project completed in Oak Grove in Nov. 2021. You can see this project from the Viking Blvd. Bridge looking south! This project will fully green up with native vegetation next year.



Hard Armoring

Progress through 2021

ACD received a 3-year grant in 2021 to install one to two hard armored streambank stabilization projects along the worst erosion stretches on the Rum River.

Progress to Date:

We have been working closely with two landowners in Oak Grove that share one of the highest priority sites on the river. One of these owners is in the process of selling the property, so we are already working with a buyer that is anticipating a purchase. Once both landowners are on board, we intend to correct this entire very severe stretch.

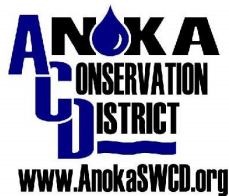
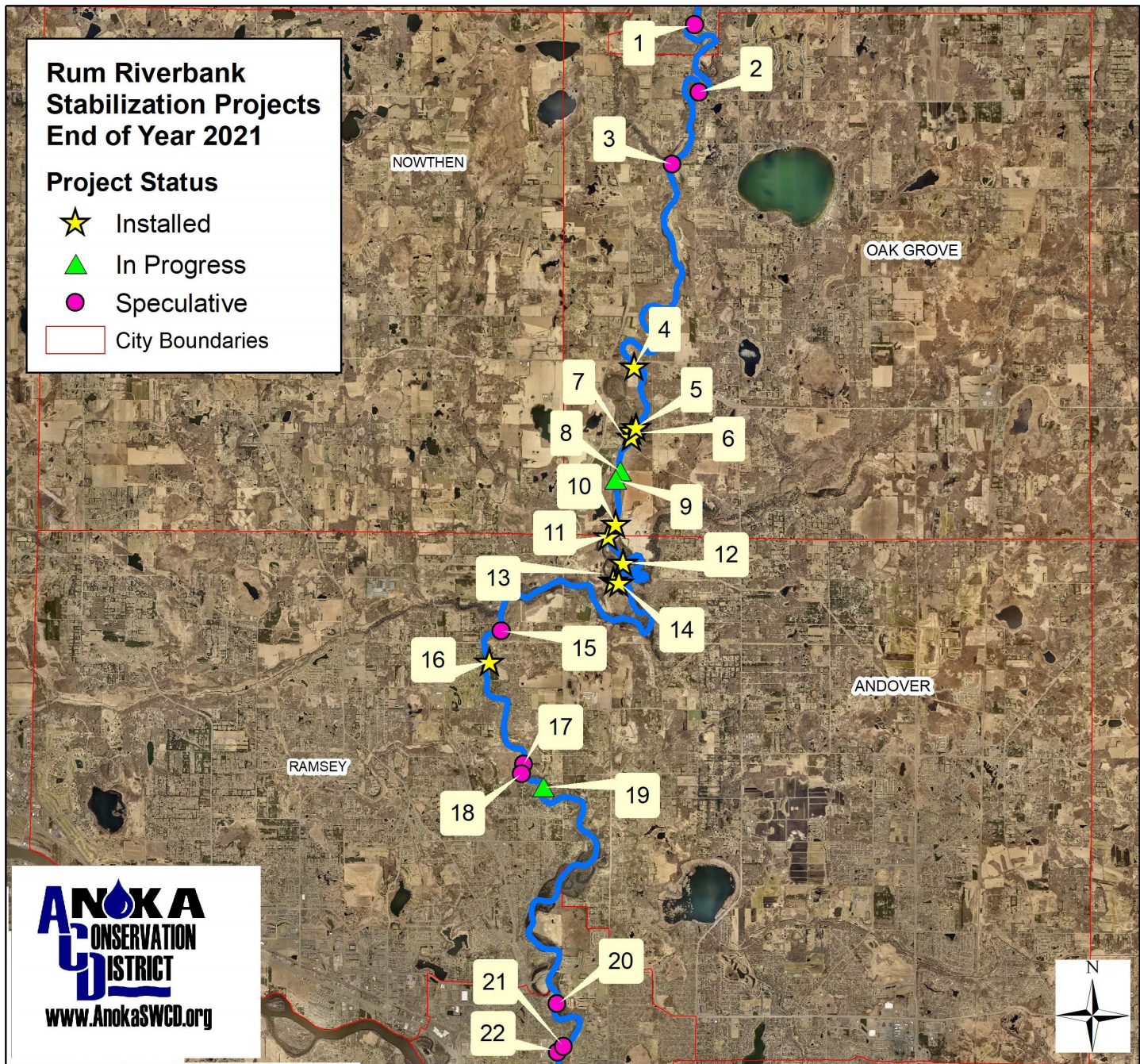


The 400+ foot project we are working towards stabilizing in Oak Grove

Rum Riverbank Stabilization Projects End of Year 2021

Project Status

- ★ Installed
- ▲ In Progress
- Speculative
- City Boundaries



Number	Grant	Project Type	Status	Length ft.	Description
1	LSOHC	Bioengineering	Speculative	700	Working with St. Francis on bioengineering project.
2	CWF	Hard Armoring	Speculative	500	Working with two landowners on highest priority project on our inventory.
3	CPL	Cedar Tree Revetment	Speculative	600	Working with landowner on potential project.
4	LSOHC	Bioengineering	Installed 2021	400	Bioengineering project installed on private property.
5	CPL	Cedar Tree Revetment	Installed 2021	500	Revetment installed on private property.
6	CPL	Cedar Tree Revetment	Installed 2021	150	Revetment installed on private property.
7	CPL	Cedar Tree Revetment	Installed 2021	320	Revetment installed on private property.
8	LSOHC	Bioengineering	In Progress	525	Bioengineering project at Cedar Creek Cons. Area. Survey complete.
9	CPL	Cedar Tree Revetment	Planned for 2022	200	Revetment planned at Cedar Creek Cons. Area 2022
10	CPL	Cedar Tree Revetment	Installed 2021	1130	Revetment installed at Cedar Creek Cons. Area.
11	CPL	Cedar Tree Revetment	Installed 2021	220	Revetment installed in Rum Central Regional Park
12	CPL	Cedar Tree Revetment	Installed 2021	275	Revetment installed in Rum Central Regional Park
13	CPL	Cedar Tree Revetment	Installed 2020	650	Revetment installed in Rum Central Regional Park
14	CPL	Cedar Tree Revetment	Installed 2021	200	Revetment installed at Rum Central Regional Park.
15	CPL	Revetment	Speculative	200	Possible revetment site on private property. Landowner interested for 2022.
16	CPL	Cedar Tree Revetment	Installed 2021	400	Revetment installed at Timber Rivers Park, Andover.
17	CPL	Revetment	Speculative	100	Possible revetment site on private property. Landowner interested for 2022.
18	LSOHC	Bioengineering	Speculative	125	Bioengineering project at Boyscout Camp. Landowner interested for 2022.
19	LSOHC	Bioengineering	In Progress	100	Bioengineering project on private property. Initial stages.
20	LSOHC	Bioengineering	Speculative	800	Working with Anoka on bioengineering project along city trail on State land.
21	CPL	Cedar Tree Revetment	Speculative	120	Possible revetment site at Rum River South.
22	CPL	Cedar Tree Revetment	Speculative	200	Possible revetment site at Rum River South.