



Environment and Natural Resources Trust Fund

M.L. 2022 Approved Work Plan

General Information

ID Number: 2022-135

Staff Lead: Michael Varien

Date this document submitted to LCCMR: June 23, 2022

Project Title: Minnesota State Trails Development

Project Budget: \$7,387,000

Project Manager Information

Name: Kent Skaar

Organization: MN DNR - State Parks and Trails Division

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Project Reporting

Date Work Plan Approved by LCCMR: June 27, 2022

Reporting Schedule: March 1 / September 1 of each year.

Project Completion: June 30, 2025

Final Report Due Date: August 14, 2025

Legal Information

Legal Citation: M.L. 2022, Chp. 94, Art. , Sec. 2, Subd. 09g

Appropriation Language: \$7,387,000 the second year is from the trust fund to the commissioner of natural resources to expand recreational opportunities on Minnesota state trails by rehabilitating and enhancing existing state trails and replacing or repairing existing state trail bridges.

Appropriation End Date: June 30, 2025

Narrative

Project Summary: This project proposes to expand recreational opportunities on Minnesota State Trails through the rehabilitation and enhancement of existing state trails and replacement or repair of existing state trail bridges.

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

Each of the individual projects identified by the Minnesota Department of Natural Resource (MN DNR), Parks and Trails Division in this proposal represents opportunities to enhance recreational opportunities and improve user safety by completing repair and/or replacement of about 23 miles of existing trail and up to 6 trail bridges. Each project is a MN DNR priority due to condition. Trail renewal projects will address the oldest and most deteriorated paved trail surfaces in the state trail system in order to improve user experience. Trail bridge projects include four replacements and two rehabilitations that were identified as need through inspection and condition ratings and will enhance user safety and experience. As proposed, these improvements will be completed as 12 separate projects, located on 11 different state trails. Two of the proposed projects, including one State Trail rehabilitation and one bridge replacement will be limited to the completion of the required engineering, design and permitting with construction deferred.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

This proposal will repair and/or replace 23 miles of existing state trail and up to six state trail bridges. State trail upgrades and improvements will occur on the Paul Bunyan, Cuyuna Lakes, Casey Jones, Shooting Star, Willard Munger and Minnesota Valley State Trails. Improvements will consist of replacement of the bituminous trail surface and widening the trail surface to the current 10' standard, reconstruction and improvement of the granular trail base, installation of ADA compliant intersections and replacement of culverts. Bridge projects will repair or replace up to six bridges. Bridges identified include two former railroad bridges, two steel recreational trail bridges and two small, timber bridges. Two of the replacements will be with modern steel truss structures, two will be rehabilitated and two will be replaced with large arched culverts. Of the 12 projects identified, the Munger State Trail rehabilitation and the CJ Ramstad/Northshore State Trail Bridge project will be limited to the completion of the final plans and specifications and will be constructed as scheduling and funding permit.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

The individual State Trail projects, once complete, will permit the continued, safe use of MN DNR administered state trails while also protecting the natural communities and resource areas through which they pass. Current construction techniques are used to continue or improve protection of resource. All projects are subject to resource assessment procedures to identify resource protection needs. Bridge projects use current techniques to protect users and employees with structural integrity and load capacities that are appropriate while also implementing construction procedures and design options to fully protect public waters and other resources they are designed to span

Project Location

What is the best scale for describing where your work will take place?

Statewide

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

During the Project and In the Future

Activities and Milestones

Activity 1: State Trail Bridge Renewal and Replacement

Activity Budget: \$1,800,000

Activity Description:

This project includes all engineering and design required for the renewal or replacement of up to six existing state trail bridges. Four bridges have recent Condition Index Rating of Fair to Satisfactory, as determined by formal inspection and are recommended for complete replacement. One of these bridges, located on the Matthew Lourey State Trail, has been removed due to flood damage and a low-water crossing provided for temporary passage. Two of the bridges, one located on the Root River State Trail (RRST) and one on the Pengilly-Alborn Railroad Trail (PART), are large, multi-span former railroad structures. The RRST has been previously subject to structural rehabilitation and the current project proposes replacement of the deteriorated timber deck/trail surface and safety railings. The PART Trail Bridge will be completely rehabilitated. Two of proposed replacement bridges will be new steel truss bridges on concrete footings with an expected useful life of 50+ years. The two Matthew Lourey State Trail bridge crossings will be replaced with large open bottom culverts. In an effort to assure successful completion of the proposed Activity, the CJ Ramstad/Northshore State Trail Gooseberry River Bridge project will be limited to the plans and specifications necessary for replacement.

Activity Milestones:

Description	Approximate Completion Date
Construction Contracts Awarded / (Represents milestone completion for 5 Bridges)	June 30, 2024
Project Engineering Complete / (Represents milestone completion for all Bridges)	June 30, 2025
Project Construction Complete (Represents milestone completion for 5 Bridges)	June 30, 2025
Project Closeout and Final Reporting / (Represents milestone completion for all Bridges)	June 30, 2025

Activity 2: Paul Bunyan State Trail - Backus to Pine River Segment Rehabilitation and Renewal

Activity Budget: \$2,000,000

Activity Description:

This project proposes the upgrading and rehabilitation of a 9.3 mile segment of the Paul Bunyan State Trail between Pine River and Backus, Cass County. The proposed trail renewal will consist of bituminous resurfacing of severely deteriorated, 30 year old trail surface. The proposed rehabilitation will also include the installation of ADA compliant trail/roadway intersections and replacement of numerous small culverts. No modifications or revisions to current State trail alignment is presently anticipated. Limited vegetation restoration will also be necessary in several areas following the conclusion of construction.

Activity Milestones:

Description	Approximate Completion Date
Required Project Engineering Complete - Paul Bunyan State Trail	December 31, 2023
Construction Contract Awarded - Paul Bunyan State Trail	June 30, 2024
Project Construction Complete - Paul Bunyan State Trail	June 30, 2025
Project Closeout and Final Reporting - Paul Bunyan State Trail	June 30, 2025

Activity 3: Cuyuna Lakes State Trail - Cuyuna State Recreation Area Segment Rehabilitation and Renewal

Activity Budget: \$800,000

Activity Description:

This project proposes the upgrade and rehabilitation of a 2.0 mile segment of the Cuyuna Lakes State Trail located immediately west of Crosby and traverses the Cuyuna Country State Recreation Area. The proposed trail renewal will address the poor condition of the bituminous trail surface originally constructed in 2005. The upgrade will consist of resurfacing the existing bituminous surface and widening of the current 8' wide trail surface to the current 10' standard, installation bio-vegetation control, installation of ADA compliant trail/roadway intersections, and replacement of a number of small culverts. The proposed reconstruction will also include additional accommodations, through formal intersections and parallel trail segments, with the expanding natural surface mountain bike trail system within the Cuyuna Country State Recreation Area.

Activity Milestones:

Description	Approximate Completion Date
Project Engineering Complete - Cuyuna Lakes State Trail	December 31, 2023
Construction Contract Awarded - Cuyuna Lakes State Trail	June 30, 2024
Project Construction Complete - Cuyuna Lakes State Trail	June 30, 2025
Project Closeout and Final Reporting - Cuyuna Lakes State Trail	June 30, 2025

Activity 4: Casey Jones State Trail - Lake Shetek State Park to Currie (South) Segment

Activity Budget: \$800,000

Activity Description:

Proposed upgrading and rehabilitation of the 2.5 mile "South" segment of the Casey Jones State Trail -Lake Shetek State Park - Currie Segment that extends between the State Park Contact Station and the community of Currie along the north bank of the Des Moines River. This trail segment was originally developed in the 1990's and is confined entirely to State Park Property. The segment connects with the "North" segment of the Lake Shetek State Park - Currie Segment at the State Park Contact Station and at the intersection of Murray Co Hwy. 38 immediately north of Currie. The renewal will widen and resurface the existing 8' bituminous surface to the current 10' wide standard, including the reconstruction and improvement of the granular trail base, replacement of a number of small culverts and installation of several ADA compliant trail/roadway intersections and crossings.

Activity Milestones:

Description	Approximate Completion Date
Project Engineering Complete - Casey Jones State Trail	December 31, 2023
Construction Contract Awarded -Casey Jones State Trail	June 30, 2024
Project Construction Complete - Casey Jones State Trail	June 30, 2025
Project Closeout and Final Reporting - Casey Jones State Trail	June 30, 2025

Activity 5: Shooting Star State Trail - Lake Louise State Park to Taopi Segment

Activity Budget: \$862,000

Activity Description:

This project proposes the upgrade and rehabilitation of 3.0 miles of the 6+ mile segment of the Shooting Star State Trail that extends between the western limits of Lake Louise State Park and the Town of Taopi, Mower County. This trail segment, which provides the primary off-road bicycle/pedestrian trail corridor to the State Park from the communities of Austin, Rose Creek and Taopi, was originally developed in the 1990's. The proposed trail rehabilitation and renewal will improve the subgrade and replace the bituminous trail surface. The project will also include the installation of

culverts in several locations to address surface drainage that continues to negatively impact trail condition and trail usability. The project will also include the installation of ADA compliant trail/roadway intersections.

Activity Milestones:

Description	Approximate Completion Date
Project Engineering Complete - Shooting Star State Trail	December 31, 2023
Construction Contract Awarded - Shooting Star State Trail	June 30, 2024
Project Construction Complete - Shooting Star State Trail	June 30, 2025
Project Closeout and Final Reporting - Shooting Star State Trail	June 30, 2025

Activity 6: Willard Munger State Trail - Hinkley to Finlayson Segment

Activity Budget: \$125,000

Activity Description:

This project proposes the completion of the engineering, design and permitting required for the upgrading and rehabilitation of the 3 mile segment of existing Willard Munger State Trail located between the communities of Hinkley and Finlayson and immediately west of Sandstone. This existing trail segment was originally constructed nearly 3 decades ago on abandoned, former railroad grade. The referenced 3 mile segment traverses an area of low wet terrain and has experienced extensive settling and cracking of the bituminous surface. The design for the proposed reconstruction will include selective subgrade correction and improvement of the trail base in an effort to address the excessive settling of the grade and resulting surface cracking currently present. The final design will also include the proposed widening and replacement the degraded 8' bituminous trail surface with a 10' wide surface that meets current state trail standards, the inclusion of bio-vegetation control in an effort to limited vegetation damage to the trail surface, the installation of ADA compliant trail/roadway intersections. The replacement of a number of small culverts located along the trail segment may also be required, specific replacement will be confirmed through field assessment. Project construction will be completed as scheduling and funding.

Activity Milestones:

Description	Approximate Completion Date
Project Engineering Complete - Willard Munger State Trail	June 30, 2025
Project Closeout and Final Reporting - Willard Munger State Trail	June 30, 2025

Activity 7: Minnesota Valley State Trail - Shakopee to Chaska Segment

Activity Budget: \$1,000,000

Activity Description:

This project proposes the upgrading and rehabilitation of two separate segments of the Minnesota Valley State Trail, extending over 3.5 miles and located along the south bank of the Minnesota River, both east and west of downtown Shakopee. One of the segments extends approximately 3 miles between Shakopee and Chaska. The second segment is located immediately north and west of Shakopee's Memorial Park. These two discrete trail segments, originally developed in the 1980's and 1990's, are on state owned former railroad corridor, state owned floodplain forest lands, and/or locally owned or administered park lands. The renewal will consist of resurfacing the highly degraded bituminous surface. Active erosion along the rivers south bank and immediately adjacent to the existing state trail in two separate locations will require stabilization of 300-400 feet of river bank prior to trail surface improvement.

Activity Milestones:

Description	Approximate Completion Date
Project Engineering Complete - Minnesota Valley State Trail	December 31, 2023
Project Construction Contract Awarded - Minnesota Valley State Trail	June 30, 2024
Project Construction Complete - Minnesota Valley State Trail	June 30, 2025
Project Closeout and Final Reporting - Minnesota Valley State Trail	June 30, 2025

Dissemination

Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.

The plans and specifications for each project will include the LCCMR/ENRTF Logo, each individual State Trail bridge shall have the LCCMR/ENRTF logo affixed to each structure and State Trail signs at State administered trailheads will include acknowledgment of LCCMR/ENRTF support.

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

Each of the identified projects are all existing components of the Outdoor Recreation System and will be implemented through the MNDNR Parks and Trails Division staff. All project engineering, design, contract administration and construction inspection will be completed by or under the direct oversight of the MNDNR Operation Services Division. The MNDNR will operate, maintain and protect each of the facilities when complete. The implementation of these projects will also significantly reduce the Parks and Trails Division's annual operational costs for the defined trail segments and bridges from 10 to 25 years.

Other ENRTF Appropriations Awarded in the Last Six Years

Name	Appropriation	Amount Awarded
Minnesota State Trails Acquisition, Development and Enhancement	M.L. 2017, Chp. 96, Sec. 2, Subd. 09d	\$1,038,000
Minnesota State Trail Development	M.L. 2018, Chp. 214, Art. 4, Sec. 2, Subd. 09j	\$2,500,000
Minnesota State Trails Development	M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 09d	\$5,000,000

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineligible	% Benefits	# FTE	Classified Staff?	\$ Amount
Personnel								
							Sub Total	-
Contracts and Services								
MNDNR Operation Services Division	Internal services or fees (uncommon)	All proposed project engineering, design, contract administration and construction inspection will be completed by or under the direct internal services oversight by the MNDNR Division of Operation Services / Construction and Design Sections.				7.5		\$1,257,500
							Sub Total	\$1,257,500
Equipment, Tools, and Supplies								
							Sub Total	-
Capital Expenditures								
		Arrowhead State Trail - Elbow River Bridge	Replacement of existing deficient Trail Bridge. The existing steel recreational trail bridge is to be replaced with a 100 foot long, 12 foot wide, steel truss recreational trail bridge. The replacement bridge will provide a 15 ton load rating					\$483,644
		Pengilly-Alborn Railroad Trail - Whiteface River Bridge	Rehabilitation of existing deteriorated state trail bridge. The existing bridge is a severely degraded, 110 foot long, steel girder structure originally constructed as a railroad structure. The rehabilitation as proposed is to consist of the repair of the concrete abutments and the installation of a new timber deck and new timber safety railings. The completed bridge will have a load rating capable of supporting all					\$336,028

			maintenance and emergency equipment.					
		Matthew Lourey State Trail - Keene Creek (North) Bridge	Replacement of structurally deficient state trail bridge (BR1340) a 21 foot long steel beam structure, with a timber deck originally constructed by MnDNR Trail staff over Keene Creek. The existing bridge has a load restriction in place that precludes all maintenance equipment from crossing. The existing structure is to be replaced with a large, arched aluminum culvert with a natural stream bottom					\$167,616
		Matthew Lourey State Trail - Keene Creek (South) Bridge	Installation of a new arched culvert over the state trails "north" crossing of Keene Creek. This structure was similar to the Keene Creek (south) BR1340 but has been removed due to flood damage. A temporary low-water crossing currently provides continued trail use. The proposed culvert will be able to support all maintenance, emergency and heavy equipment when complete					\$167,616
		Root River State Trail - Root River Bridge #3 (Watson Creek)	Replacement of deteriorated trail bridge deck and safety railing on Root river State Trail Bridge #3 (BR1244) located approximately 3.75 miles west of the community of Lanesboro, Fillmore County. This existing bridge is a 4 span, steel girder former railroad structure, originally constructed in 1905 over Watson Creek. This bridge was subject to complete structural rehabilitation in 2016. This project proposes the replacement of the existing timber bridge deck / trail surface originally installed in 1980's, with a laminated timber deck with a bituminous trail surface and new safety railings.					\$293,528
		Paul Bunyan State Trail - Trail Rehabilitation and Renewal (Crow Wing County)	Proposed upgrading and rehabilitation of the approximately 9.3 mile segment of the existing Paul Bunyan State Trail					\$1,677,755

			located between the communities of Pine River and Backus. The proposed trail renewal is to consist principally of the bituminous resurfacing of the 10' bituminous trail surface, the installation of ADA compliant trail/roadway intersections and the replacement of numerous small culverts					
		Cuyuna Lakes State Trail - Trail Rehabilitation and Renewal	Proposed upgrading and rehabilitation of approximately 2.5 mile segment of the existing Cuyuna Lakes State Trail that is located immediately west of the community of Crosby and traverses the Cuyuna Country State Recreation Area. The proposed trail renewal is necessary to address the poor condition of the existing bituminous trail surface originally constructed in 2005. The upgrading of this trail segment will consist principally of the resurfacing of the 8' bituminous trail and widening to the current 10' standard, bio-vegetation control, the installation of ADA compliant trail/roadway intersections, and the replacement of a number of small culverts.					\$671,261
		Casey Jones State Trail - Trail Rehabilitation and Renewal	Proposed upgrading and rehabilitation of the 2.5 mile "South" segment of the Casey Jones State Trail that extends through the Lake Shetek State Park and the community of Currie, along the north bank of the Des Moines River. The proposed trail renewal is to consist principally of the widening and resurfacing of the existing 8' bituminous trail to the current 10' wide trail standard, including the reconstruction and improvement of the granular trail base, the replacement of a number of small culverts and the installation of several the installation of ADA					\$691,261

			compliant trail/roadway intersections and crossings					
		Shooting Star State Trail - Trail Rehabilitation and Renewal	The rehabilitation and renewal of a 3.0 mile segment of the Shooting State Trail, located between the Lake Louise State Park and the Town of Taopi that was originally developed in the 1990's. The proposed trail renewal is to consist principally of the resurfacing of the current 10' wide bituminous trail. Subgrade corrections and the installation of a number of small culverts in several locations will be required to address surface drainage. The project is also proposed to include the installation of ADA compliant trail/roadway intersections					\$722,466
		Minnesota Valley State Trail - trail Rehabilitation and Renewal	The upgrading and rehabilitation of two separate trail segments of the Minnesota Valley State Trail, extending over a distance of approximately 3.5 miles and located along the south bank of the Minnesota River, located in the community of Shakopee. The renewal of the two, discrete trail segments, originally developed in the 1980's and 1990's, is to consist principally of the resurfacing of the deteriorated existing bituminous trail surface. However, extensive riverbank erosion in two locations will require stabilization as a first phase of redevelopment					\$838,877
							Sub Total	\$6,050,052
Acquisitions and Stewardship								
							Sub Total	-
Travel In Minnesota								

							Sub Total	-
Travel Outside Minnesota								
							Sub Total	-
Printing and Publication								
							Sub Total	-
Other Expenses								
		MNDNR Direct and Necessary Costs	Pay for activities that are directly related to and necessary for accomplishing appropriated programs/projects. Direct and necessary costs cover HR Support (~\$0), Safety Support (~\$0), Financial Support (~\$77,129), Communication Support (~\$1,311), IT Support (~\$0), and Planning Support (~\$1,008) that are necessary to accomplishing funded programs/projects					\$79,448
							Sub Total	\$79,448
							Grand Total	\$7,387,000

Classified Staff or Generally Ineligible Expenses

Category/Name	Subcategory or Type	Description	Justification Ineligible Expense or Classified Staff Request
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Non ENRTF Funds

Category	Specific Source	Use	Status	\$ Amount
State				
			State Sub Total	-
Non-State				
			Non State Sub Total	-
			Funds Total	-

Attachments

Required Attachments

Visual Component

File: [d02ac7a2-ebb.pdf](#)

Alternate Text for Visual Component

Attachment includes two sheets, the first includes the locations of each of the 6 state trail bridge rehabilitation projects and the second includes the locations of each of the 6 trail rehabilitation projects all represented on a small map of the State of Minnesota. Each sheet also contains small inset maps that identify each State Trail Bridge and State Trail Projects by description and at a reduced scale....

Optional Attachments

Support Letter or Other

Title	File
Background Chek Certification Form for Project 2022-135	8b0c430c-48c.pdf

Difference between Proposal and Work Plan

Describe changes from Proposal to Work Plan Stage

The Environment and Natural Resources Trust Fund 2022 Work Plan for the project titled "Minnesota State Trails Development" as submitted has been revised to conform to the funding recommendations of the Legislative-Citizen Commission on Minnesota Resources and the Minnesota Legislature. The principal revision is the change in the scope for two of the referenced projects, the CJ Ramstad/Northshore State Trail - Gooseberry River Bridge Replacement and the Munger State Trail / Hinckley to Finlayson Trail Rehabilitation, which are now both limited to the engineering, design and permitting required for future completion. Limited adjustments to individual project budgets are also reflected.

Additional Acknowledgements and Conditions:

The following are acknowledgements and conditions beyond those already included in the above workplan:

Do you understand and acknowledge the ENRTF repayment requirements if the use of capital equipment changes?

Yes

Do you agree travel expenses must follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

N/A

Does your project have potential for royalties, copyrights, patents, or sale of products and assets?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

No

Does the organization have a fiscal agent for this project?

No

Minnesota State Trail Development

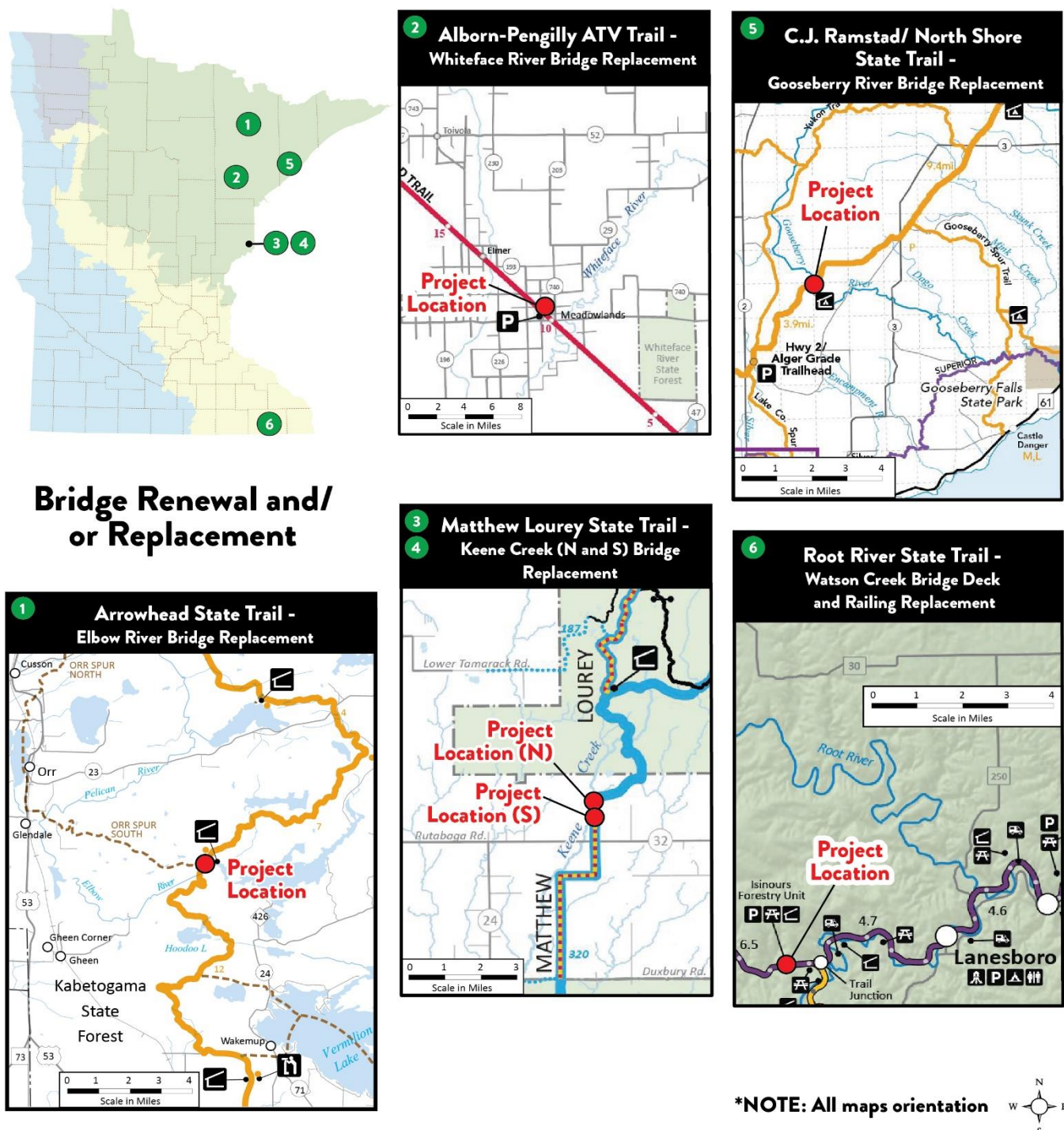
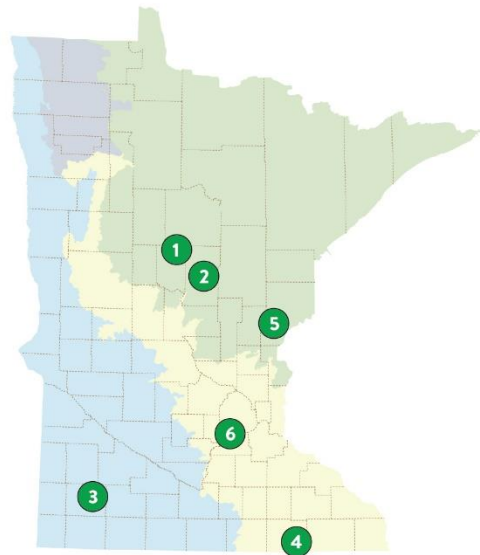
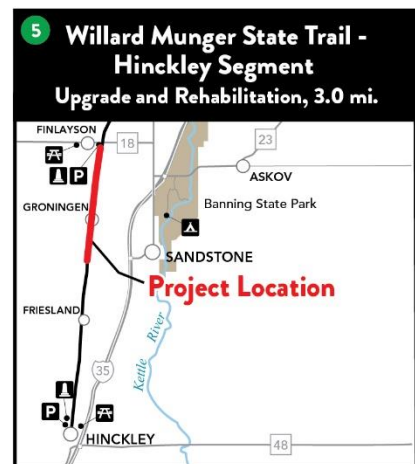
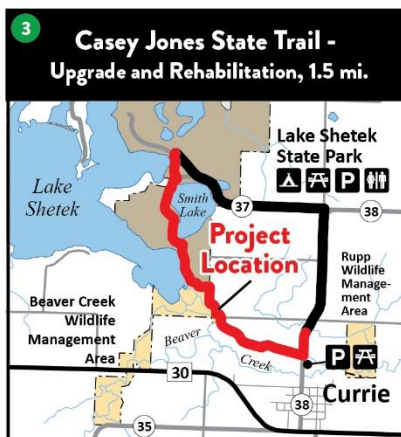


Figure 1 Location Map of Minnesota with Six Trail Bridge Projects Identified and Six separate inset maps providing detailed project locations.

Minnesota State Trail Development



Trail Development/ Rehabilitation



***NOTE: All maps orientation**



Figure 2 Location Map of Minnesota with Six Trail Projects Identified and Six separate inset maps providing detailed project locations.