



Environment and Natural Resources Trust Fund (ENRTF)

M.L. 2019 ENRTF Work Plan (Main Document)

Today's Date: 27 August 2018

Date of Next Status Update Report: 1 March 2020

Date of Work Plan Approval:

Project Completion Date: 30 June 2021

Does this submission include an amendment request? NO

PROJECT TITLE: Minnesota State Trails Development

Project Manager: Kent Skaar

Organization: Minnesota Department of Natural Resources

College/Department/Division: Division of Parks and Trails

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Location: See attached map.

*Map includes proposed Blazing Star State Trail project, identifying the location of this potential alternative project.

Total Project Budget: \$5,000,000

Amount Spent: \$0

Balance: \$5,000,000

Legal Citation: M.L. 2019, Chp. xx, Sec. xx, Subd. xx

Appropriation Language:

I. PROJECT STATEMENT: This project fulfills legislative direction to expand recreational opportunities on Minnesota State Trails through the development of new trail segments; and the rehabilitation and enhancement of existing State Trails. Engineering, design, and construction will meet the requirements of the Americans with Disabilities Act (ADA), Minnesota Department of Natural Resources Trail Planning, Design and Development Guidelines, the Minnesota Department of Transportation Bikeways Facility Design Manual, and the American Association of State Highway and Transportation Officials (AASHTO) guide for the development of bicycle facilities.

Each of the Minnesota State Trail proposals identified for this project, including: (1) State Trail Bridge Rehabilitation or Replacement; (2) Paul Bunyan State Trail: City of Bemidji - Clausen Ave Connection; (3) Gateway State Trail: City of St. Paul - L'Orient Avenue Realignment; (4) Heartland State Trail: Cass County - Steamboat Loop/Co Rd. 142 Realignment; (5) Gitchi Gami State Trail: Lutsen Connection (6) Minnesota Valley State Trail: Fort Snelling State Park Segment represent opportunities to enhance and expand recreational trail opportunities and improve user safety by completing connections between existing trail segments and communities, by providing matching funds for projects with Federal Grants, or by completing needed facility safety improvements. Should the above referenced projects be subject to unanticipated delays or are not be able to be completed as proposed, one or more of the following projects would be funded as alternatives: (A) Additional State Trail Bridges on the North Shore State Trail and the Harmony Preston State Trail and (B) Blazing Star State Trail: Albert Lea Lake / Myre - Big Island State Park Segment.

II. OVERALL PROJECT STATUS UPDATES:

First Update March 1, 2020

Second Update September 1, 2021

Third Update March 1, 2021

Fourth Update September 1, 2022

Fifth Update March 1, 2022

Final Report between project end (June 30) and August 15, 2022

III. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1 Title: State Trail Bridge Rehabilitation or Replacement

Description: This activity proposes the renewal or replacement of (6) six existing State Trail Bridges that have determined by formal inspection to have a Conditional Index Rating of Fair to Poor and are recommended for substantial rehabilitation or complete replacement within 2 years. Each of the seven bridges identified for this activity are currently subject to annual inspection and will be subject to additional load and use restrictions or closure should conditions change. The bridges to be subject to renewal or replacement are located on the following State Trails and are listed in the order of priority:

- (1) **Arrowhead State Trail-Koochiching Co.:** This project is to consist of the replacement of the existing 32 foot long timber pile supported bridge that carries the State Trail over the Rat Root River. The current bridge has a posted 1000 lbs. load restriction which precludes any maintenance equipment, including snowmobile groomers from crossing the bridge. The replacement structure is proposed to be a 80 foot long steel truss bridge with a load rating capable of supporting all maintenance and emergency equipment. Estimated cost of engineering and construction: \$400,000
- (2) **Central Lakes State Trail-Douglas Co.:** This project is to consist of the replacement of the existing 82 foot long concrete former railroad bridge over a small intermittent stream. The current structure has

temporary supports are presently in place and has a posted load restriction of 3000 lbs. This existing bridge is proposed to be replaced with a culvert. Estimated cost of engineering, demolition and construction: \$175,000

- (3) **Harmony-Preston Valley State Trail-Fillmore Co.:** This project is to consist of the structural rehabilitation and the replacement of the existing timber decking on an existing steel truss trail bridge that carries the State Trail over the South Branch of the Root River. Structural rehabilitation is to include foundation abutment repair and stabilization. Estimated cost of engineering and construction: \$200,000
- (4) **Matthew Lourey State Trail-Pine Co.:** This project is to consist of the replacement of the existing 80 foot long steel truss bridge over Bear Creek. Due to the narrow 10 foot width of the current bridge deck, the current structure is not able to safely carry typical maintenance equipment and has a posted load restriction of 1500 lbs. The replacement structure is proposed to be a 100 foot long steel truss bridge with a load rating of 15 tons, capable of supporting all maintenance and emergency equipment. Estimated cost of engineering and construction: \$400,000
- (5) **North Shore State Trail-Lake Co.-Lake Co.:** This project is to consist of the replacement of two (2) existing bridges located on the North Shore State Trail. These existing bridges are both timber span structures, supported on timber cribbing and are in advanced stages of structure deterioration. Bridge #1 is a 42 foot long structure that carries the trail over the West Branch of the Beaver River. Bridge #2 is a 24 foot long structure over Big Nine Creek. Bridge #1 is proposed to be replaced with a 60 foot long steel truss bridge. Bridge #2 is proposed to be replaced with an aluminum box culvert. Estimated cost of engineering and construction for both structures: \$475,000

Upon completion of the rehabilitation or replacement of the above referenced bridges, additional bridges located on the North Shore State Trail will also be subject to improvement should the ENRTF activity budget permit.

ACTIVITY 1 ENRTF BUDGET: \$1,650,000

Outcome	Completion Date
1. (a) Arrowhead ST: Project Engineering Complete and Construction Contract Awarded	June 1, 2020
(b) Arrowhead ST: Project Construction Complete	December 1, 2020
2. (a) Central Lakes ST: Project Engineering Complete and Construction Contract Awarded	June 1, 2020
(b) Central Lakes ST: Project Construction Complete	December 1, 2020
3. (a) Harmony-Preston Valley ST: (both Bridges) Project Engineering Complete and Construction Contract Awarded	June 1, 2020
(b) Harmony-Preston Valley ST: (both Bridges) Project Construction Complete	October 1, 2020
4. (a) Matthew Lourey ST: Project Engineering Complete and Construction Contract Awarded	March 1, 2021
(b) Matthew Lourey ST: Project Construction Complete	December 1, 2021
5. (a) Northshore ST: (both Bridges) Project Engineering Complete and Construction Contract Awarded	March 1, 2021
5, (b) Northshore ST: (Both Bridges) Project Construction Complete	December 1, 2021

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Fourth Update September 1, 2021

Final Report between project end (June 30) and August 15, 2022

ACTIVITY 2 Title: Development of the Paul Bunyan State Trail: City of Bemidji - Clausen Ave Connection

Description: The project as proposed is to consist of the construction of an approximately 0.5 mile long segment of new recreational trail located along and adjacent to Clausen Avenue in the City of Bemidji. This trail section represents the final undeveloped segment of the 110 mile long Paul Bunyan State Trail between the communities of Brainerd/Baxter and Bemidji. The project, which is a cooperative project with the City of Bemidji, is necessary to eliminate the current circumstance that requires trail users to share the public roadway with personal and commercial traffic. Required property acquisitions have been completed by both the City of Bemidji and the Department of Natural Resources and the conceptual plans and specifications were developed by the Department of Natural Resources in 2011. The ENRTF Budget for this project will be supplemented by a \$150,000 Federal Recreational Trail Grant awarded to this project in 2017.

ACTIVITY 2 ENRTF BUDGET: \$450,000

Outcome	Completion Date
1. Project Engineering Complete and Construction Contract Awarded	June 1, 2020
2. Project Construction Complete	December 1, 2020

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Final Report between project end (June 30) and August 15, 2022

ACTIVITY 3 Title: Development of the Gateway State Trail: City of St. Paul - L’Orient Avenue Realignment

Description: This Activity/Budget will allow for the construction of the proposed realignment of a 0.65 mile long segment of the Gateway State Trail, east of L’Orient Avenue, along the western margins of the I-35E rights-of-way, in St. Paul, Ramsey County. This is a cooperative project between the Minnesota Department of Transportation, Minnesota Department of Natural Resources and the City of St. Paul. The project will allow for the elimination of an existing at-grade trail crossing of L’Orient Avenue, a roadway which has increasing heavy commercial traffic. The conceptual design for this project has been completed by the Department of Natural Resources and further engineering of the locally preferred corridor is currently underway. As presently proposed the trail realignment corridor is to be confined entirely to lands administered by the Minnesota Department of Transportation and the City of St. Paul. Should the final project plans identify the need for limited land acquisition, an update to the ENTF Work Plan will be submitted.

ACTIVITY 3 ENRTF BUDGET: \$600,000

Outcome	Completion Date
1. Project Engineering Complete and Construction Contract Awarded	June 1, 2020
2. Project Construction Complete	June 30, 2021

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Fourth Update September 1, 2021

Final Report between project end (June 30) and August 15, 2022

ACTIVITY 4 Title: Development of the Heartland State Trail: Cass Co. - Steamboat Loop/Co Rd. 142 Realignment

Description: This project proposes the development of a 1.0 mile segment of new recreational trail located 7.5 miles north of the community of Walker. The proposed development will provide the opportunity to eliminate the one existing gap in the 39 miles of the Heartland State Trail as authorized east of Park Rapids and improve trail user safety. The project will eliminate the current trail severance that presently requires the trail user to navigate of the narrow, bituminous shoulder of the Cass CR 142 / Steamboat Loop roadway between two existing portions of the dedicated State Trail corridor, located north and south of the proposed project corridor. The proposed trail development corridor is currently state owned and is presently used principally by snowmobiles. The development of this trail segment will provide all trail users, a safe, off-road, multi-use, recreational trail that is consistent with the remainder of the Heartland State Trail, consisting of a 10 foot wide bituminous trail surface with grades that do not exceed 5% as established by the Americans with Disabilities Act. The required trail corridor has been previously acquired and preliminary engineering for the corridor has been completed.

ACTIVITY 4 ENRTF BUDGET: \$900,000

Outcome	Completion Date
1. Project Engineering Complete and Construction Contract Awarded	March 1, 2020
2. Project Construction Complete	October 1, 2020

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Final Report between project end (June 30) and August 15, 2022

ACTIVITY 5 Title: Development of the Gitchi Gami State Trail: Lutsen Connection

Description: This activity proposes the development of a new 1.5 mile segment of the Gitchi Gami State Trail extending from the trail's current terminus at "Ski Hill Road" to the community of Lutsen. The existing State Trail that terminates at Ski Hill Road, extends south approximately 10.5 miles thru the community of Tofte and Temperance River State Park, terminating in Town of Schroeder. A Feasibility study of potential trail alignments for the Lutsen Connection has been previously completed through the cooperative efforts of the Community of Lutsen, the Gitchi Gami Trail Association and the Arrowhead Regional Development Commission. The ENRTF Budget for this project will provide the engineering and design as well as the required State match for a \$600,000 Transportation Alternatives Grant awarded to this project in 2017. The estimated cost to design and develop the Gitchi Gami State Trail / Lutsen Segment is currently \$1,100,000. Should the final project plans identify the need for limited land acquisition, an update to the ENTF Work Plan will be submitted.

ACTIVITY 5 ENRTF BUDGET: \$500,000

Outcome	Completion Date
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1. Project Engineering Complete and Construction Contract Awarded	March 1, 2021
2. Project Construction Complete	December 1, 2021

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Fourth Update September 1, 2021

Fifth Update March 1, 2022

Final Report between project end (June 30) and August 15, 2022

ACTIVITY 6 Title: Redevelopment of the Minnesota Valley State Trail: Fort Snelling State Park Segment

Description: This activity proposes the upgrading and rehabilitation of a 0.6 mile segment of the Minnesota Valley State Trail located entirely within the boundaries of Fort Snelling State Park. This project is to be a cooperative project with the National Park Service (NPS) which owns and administers the northern 0.5 miles of the trail that extends beyond the State Park boundaries, terminating in Minnehaha Regional Park. As proposed, the redevelopment of this trail segment will include the complete replacement and widening the bituminous trail surface from 8 feet to 10 feet, the replacement of several small timber bridges with culverts, and improvements to accessibility in several areas. The NPS has allocated funding for the redevelopment of its 0.5 mile segment and has provided the Department of Natural Resources a \$200,000 grant for the redevelopment of the 0.6 mile state owned trail segment. Final plans and specifications for this project have been developed by the NPS in consultation with the Department of Natural Resources. NPS is to be administrator of construction bidding and construction through Agreement with the Department of Natural Resources.

ACTIVITY 6 ENRTF BUDGET: \$900,000

Outcome	Completion Date
1. Project Construction Contract Awarded	September 1, 2019
2. Project Construction Complete	August 1, 2020

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Final Report between project end (June 30) and August 15, 2022

IV. DISSEMINATION:

Description: The projects to be completed under this budget/activity will be completed in cooperation with each of the associated communities and the local Trail Association or Friends Organization. Project planning and design will be completed with the complete participation of the State Trail local partners. At the direction of the local project partners, open houses may be scheduled to provide local residents and interested parties an opportunity to view and comment on the project design plans. Notifications regarding trail development schedules and impacts to existing trail use will be placed on the Minnesota Department of Natural Resources Web pages for the specific project trails (see web address for activities one through six below). Notifications will

also be published directly by the Department of Natural Resources in local newspapers should the anticipated impacts warrant.

- https://www.dnr.state.mn.us/state_trails/central_lakes/index.html
- https://www.dnr.state.mn.us/state_trails/arrowhead/index.html
- https://www.dnr.state.mn.us/state_trails/harmony_preston/index.html
- https://www.dnr.state.mn.us/state_trails/matthew_lourey/index.html
- https://www.dnr.state.mn.us/state_trails/matthew_lourey/index.html
- https://www.dnr.state.mn.us/state_trails/north_shore/index.html
- https://www.dnr.state.mn.us/state_trails/paul_bunyan/index.html
- https://www.dnr.state.mn.us/state_trails/gateway/index.html
- https://www.dnr.state.mn.us/state_trails/heartland/index.html
- https://www.dnr.state.mn.us/state_trails/gitchigami/index.html

Additionally the local trail organizations will also play a role in notifying the public of project planning and construction.

- <http://gatewaybrownscreektrail.org/>
- <http://www.ggta.org/>

The Minnesota Environment and Natural Resources Trust Fund (ENRTF) will be acknowledged through use of the trust fund logo or attribution language on project print and electronic media, publications, signage, and other communications per the [ENRTF Acknowledgement Guidelines](#).

First Update March 1, 2020

Second Update September 1, 2020

Third Update March 1, 2021

Fourth Update September 1, 2021

Fifth Update March 1, 2022

Final Report between project end (June 30) and August 15, 2022

V. ADDITIONAL BUDGET INFORMATION:

A. Personnel and Capital Expenditures

Explanation of Capital Expenditures Greater Than \$5,000: The ENRTF Budget for this project of \$5,000,000 is proposed to be expended entirely on the rehabilitation or replacement of the identified bridges and the rehabilitation or development of the identified segments of the Paul Bunyan, Gateway, Heartland, Gitchi Gami and Minnesota Valley State Trails. Trail construction is to consist of the development of segments of 10 foot wide bituminous surfaced recreational trail. All state trail improvements will be confined to lands administered by the State of Minnesota and will be continuously open to the public for all designated uses.

Explanation of Use of Classified Staff: NA

Total Number of Full-time Equivalent (FTE) Directly Funded with this ENRTF Appropriation:

Enter Total Estimated Personnel Hours for entire duration of project: 0	Divide total personnel hours by 2,080 hours in 1 yr = TOTAL FTE: 0
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Total Number of Full-time Equivalent (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:

Enter Total Estimated Contract Personnel Hours for entire duration of project: 12,480	Divide total contract hours by 2,080 hours in 1 yr = TOTAL FTE: 6
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VI. PROJECT PARTNERS:

A. Partners outside of project manager’s organization receiving ENRTF funding

NA

B. Partners outside of project manager’s organization NOT receiving ENRTF funding

Project partners include the cities of St. Paul, Bemidji, and Lutsen, Cook and Cass Counties, the Gitchi Gami and Gateway-Browns Creek Trail Associations, the National Park Service and the Minnesota Department of Transportation. Partner participation includes supplemental funding, providing trail rights-of-way and design review assistance.

VII. LONG-TERM- IMPLEMENTATION AND FUNDING:

Each of the identified projects are all existing or proposed components of the Outdoor Recreation System and will be implemented through the MNDNR Division of Parks and Trails Division staff. The development of the each of the referenced trail projects, which represent improvements or enhancements to each of the individual state trails, will have an immediate impact on all users and trail maintenance staff by providing expanded trail opportunities and significant safety improvements. The development of the Gitchi Gami State Trail – Lutsen Connection will provide Lutsen residents and visitors a direct, off-road recreational trail connection for users of all abilities to Temperance River State Park and the communities of Tofte and Schroeder. Within the communities of St. Paul and Bemidji, and in rural Cass County north of the Community of Walker, each proposed trail projects will eliminate the last significant at-grade trail / public road crossing and on-road trail segments for the existing Gateway, Heartland and Paul Bunyan State Trails.

The engineering and design of the each of the projects, except the Minnesota Valley State trail Segment, will be completed by the Department of Natural Resources, Division of Operations Services, Design and Construction Section. Although the plans and specifications for the Paul Bunyan State Trail, Heartland State Trail and the Gateway State Trail projects are well advanced, final engineering and design will be initiated at the time of approval of the ENRTF Workplan and Budget. Contract and construction administration for all projects except the Minnesota Valley State Trail will also be provided by the Department of Natural Resources, Division of Operations Services.

Upon completion of these projects, it is not anticipated that significant revision, rehabilitation or repair to the individual trail segments will be required for twenty to twenty five years. Each of the bridge to culvert replacements will result in the removal on a bridge from the Department of Natural Resources Bridge Inventory eliminating all future bridge inspections and significantly limiting the annual maintenance in perpetuity. Required seasonal maintenance, including trail surface crack sealing and limited surface repairs, vegetation management, fencing and regulatory and informational sign maintenance will be completed by the MnDNR Trail Operations staff who currently administer, operate and maintain the respective state trails.

VIII. REPORTING REQUIREMENTS:

- Project status update reports will be submitted March 1 and September 1 each year of the project
- A final report and associated products will be submitted between June 30 and August 15, 2022

IX. SEE ADDITIONAL WORK PLAN COMPONENTS:

- A. Budget Spreadsheet**
- B. Visual Component or Map**
- C. Parcel List Spreadsheet**
- D. Acquisition, Easements, and Restoration Requirements**
- E. Research Addendum**

Attachment A:

Environment and Natural Resources Trust Fund
M.L. 2019 Budget Spreadsheet

Legal Citation:

Project Manager: Kent Skaar

Project Title: Minnesota State Trails Development

Organization: Minnesota Department of Natural Resources - Division of Parks and Trails

Project Budget: \$5,000,000

Project Length and Completion Date: June 30, 2022

Today's Date: August 27, 2018



ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Budget	Amount Spent	Balance
BUDGET ITEM			
Personnel (Wages and Benefits)	\$ -	\$ -	\$ -
NA			
Professional/Technical/Service Contracts			
State Trail Bridges Renewal or Replacement - MNDNR Engineering	\$ 165,000	\$ -	\$ 165,000
Paul Bunyan State Trail (Clausen Ave.) - MNDNR Engineering	\$ 45,000	\$ -	\$ 45,000
Gateway State Trail (L'Orient Ave) - MNDNR Engineering	\$ 30,000	\$ -	\$ 30,000
Heartland State Trail (Steamboat Loop) - MNDNR Engineering	\$ 45,000	\$ -	\$ 45,000
Gitchi Gami State Trail (Lutsen) - MNDNR Engineering	\$ 50,000	\$ -	\$ 50,000
Minnesota Valley State Trail (Ft Snelling State Park) - NA		\$ -	\$ -
Equipment/Tools/Supplies			
NA	\$ -	\$ -	\$ -
Capital Expenditures Over \$5,000			
State Trail Bridges Renewal or Replacement - Construction (Contract)	\$ 1,465,270	\$ -	\$ 1,465,270
Paul Bunyan State Trail (Clausen Ave.) - Contract (Contract)	\$ 399,435	\$ -	\$ 399,435
Gateway State Trail (L'Orient Ave) - Construction (Contract)	\$ 562,412	\$ -	\$ 562,412
Heartland State Trail (Steamboat Loop) - Construction (Contract)	\$ 843,364	\$ -	\$ 843,364
Gitchi Gami State Trail (Lutsen) - Construction (Contract)	\$ 443,929	\$ -	\$ 443,929
Minnesota Valley State Trail (Ft Snelling State Park) - Construction (Contract)	\$ 900,000	\$ -	\$ 900,000
Fee Title Acquisition			
NA	\$ -	\$ -	\$ -
Easement Acquisition			
NA	\$ -	\$ -	\$ -
Professional Services for Acquisition			
NA	\$ -	\$ -	\$ -
Printing			
NA	\$ -	\$ -	\$ -
Travel expenses in Minnesota			
NA	\$ -	\$ -	\$ -
Other:			
Direct and Necessary expenses: HR Support (NA), Safety Support (NA), Financial Support (\$50,590.00), Communication Support (NA), IT Support (NA), and Planning Support (NA) necessary to accomplish funded programs/projects	\$ 50,590	\$ -	\$ 50,590
COLUMN TOTAL	\$ 5,000,000	\$ -	\$ 5,000,000

OTHER FUNDS CONTRIBUTED TO THE PROJECT	Status (secured or pending)	Budget	Spent	Balance
Non-State: Paul Bunyan State Trail (Clausen Ave)-Federal Recreation Trail Grant (\$150,000) Gitchi Gami State Trail (Lutsen)-Transportation Alternatives Grant (\$600,000). Minnesota Valley State Trail (Minnehaha Segment) NPS Grant (\$200,000)	Secured	\$ 950,000	\$ -	\$ 950,000
State:	NA	\$ -	\$ -	\$ -
In kind: Minnesota Valley State Trail (Fort Snelling) the National Park Service will be providing Final Engineering and construction administration (Cost Estimated)	Secured	\$ 50,000	\$ -	\$ 50,000

PAST AND CURRENT ENRTF APPROPRIATIONS	Amount legally obligated but not yet spent	Budget	Spent	Balance
Current appropriation: ML 2017, Chp. 96, Sec. 2, Subd. 09d. - Minnesota State Trail Projects on the Mill Towns and Casey Jones State Trails.	\$ 400,494	\$ 1,038,000	\$ 47,205	\$ 990,795
Current appropriation: ML 2018, Chp. 214, Article 5, Subd. 09d. - Minnesota State Trail Development and Enhancement Projects on the Gateway and Gitchi Gami State Trails.		\$ 2,500,000	\$ -	\$ 2,500,000
Past appropriations:		\$ -	\$ -	\$ -

ACTIVITY 1

MAP 1

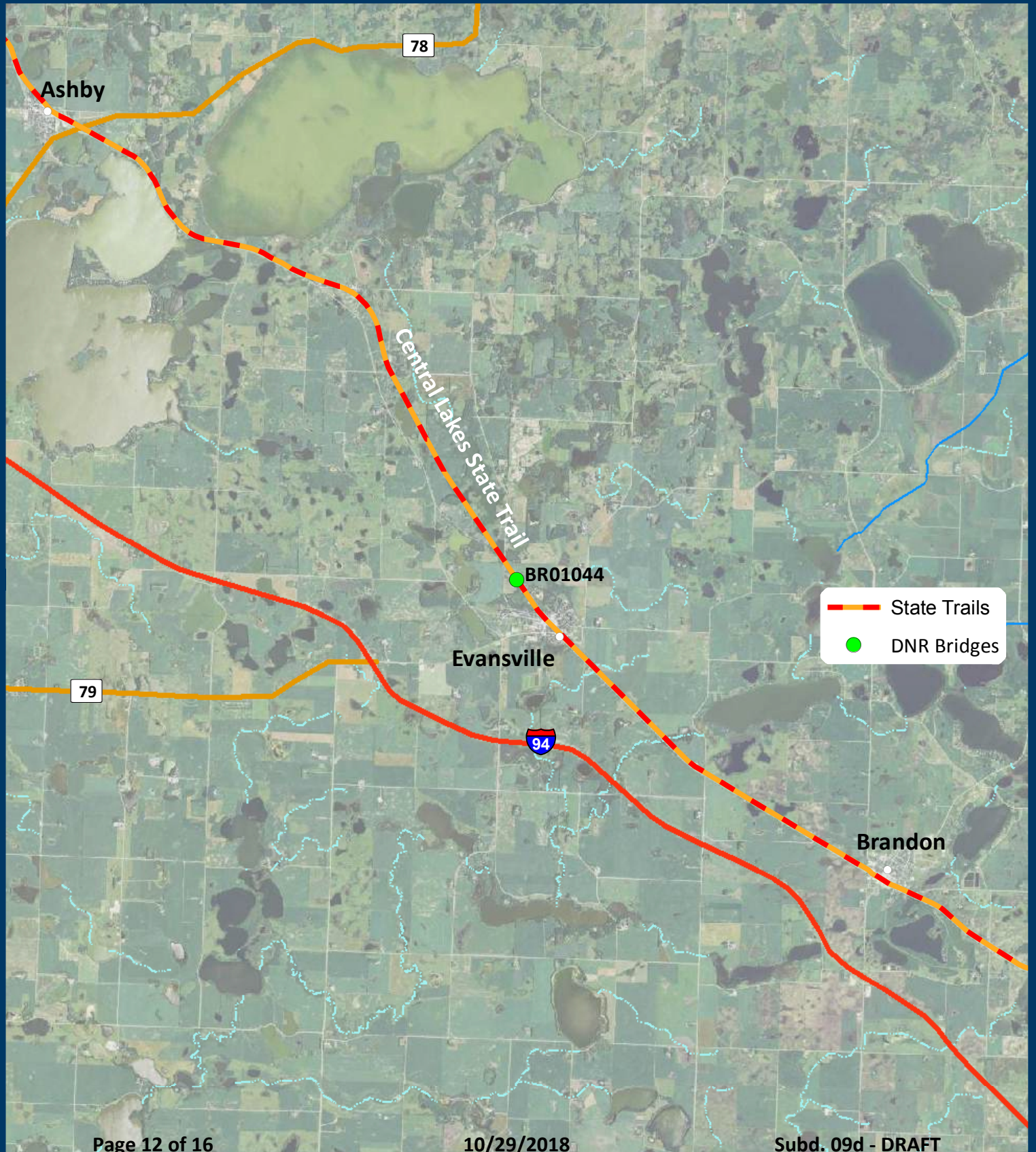
**Arrowhead State Trail-Koochiching Co. Replace Bridge
BR01019 - Rat Root River Bridge**



ACTIVITY 1

MAP 2

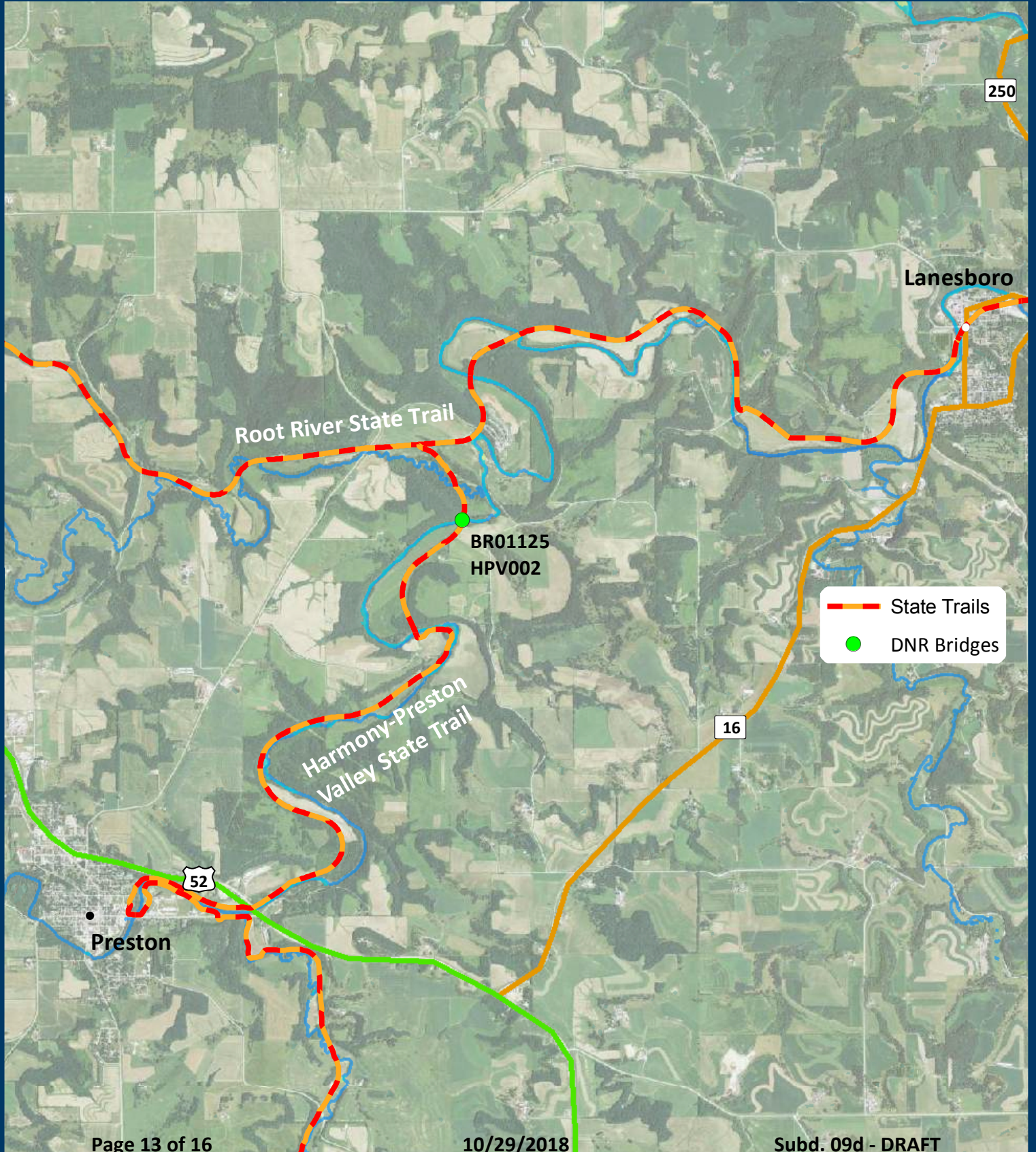
**Central Lakes State Trail-Douglas Co.
Replace Bridge BR01044 with Culvert**



ACTIVITY 1

MAP 3

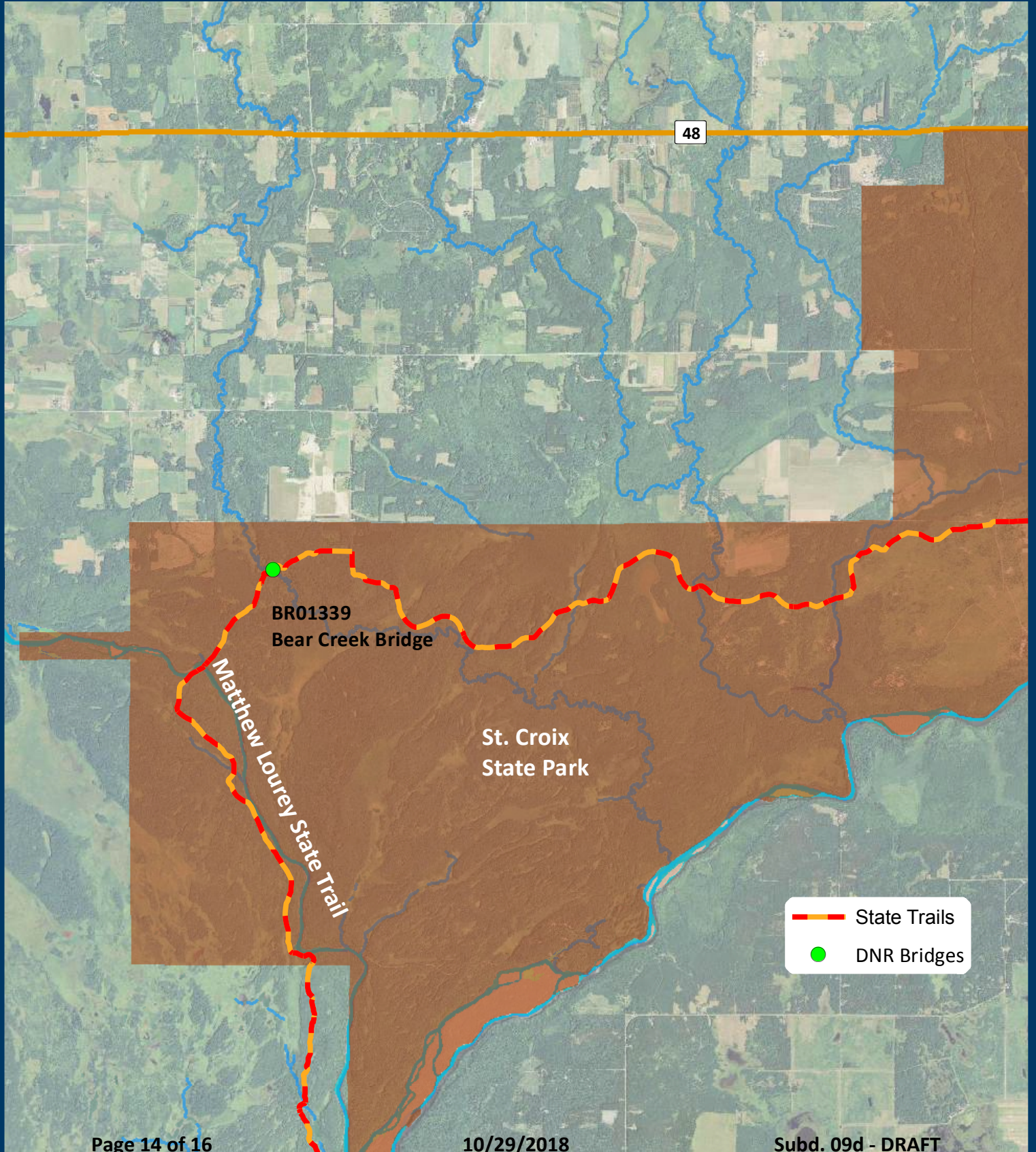
**Harmony-Preston Valley State Trail-Fillmore Co.
Rehabilitate Bridge BR01125**



ACTIVITY 1

MAP 4

**Matthew Lourey State Trail-Pine Co. Bridge
BR01339 - Bear Creek- Replacement**



ACTIVITY 1

MAP 5

**North Shore State Trail-Lake Co. Replace
Bridges BR01205 & BR01206**

