

Draft Shared Use Paths Inventory and Detailed Maintenance Plan

Presented to the Revenue and
Transportation Interim Committee

12/1/2015

Purpose

- House Bill 604, as passed, requires the following:
 - compile an inventory of all multiuse trails or other paths within state-maintained federal-aid highway rights-of-way that are separated from motorized vehicular traffic by open spaces, pavement, markings, or barriers and that are usable for transportation purposes by pedestrians, runners, bicyclists, skaters, equestrians, and other nonmotorized users;
 - develop a plan for maintaining and repairing the trails and other paths described in subsection (1), including estimated costs for maintenance and repair;

What this Plan is

- This plan only represents paths that were fully constructed in the summer of 2015
- It is important to note that this Shared Use Paths Inventory and Detailed Maintenance Plan is a living document. It does not address projects currently in development or future planning. Costs will change as new projects are constructed and agreements are implemented or modified

Shared Use Paths Background

- Most Shared use Paths were constructed through Community Transportation Enhancement Programs (CTEP)
- CTEP typically had Project Level Agreements where the County/City is tasked with maintenance
- In most instances these agreements have worked well and paths are generally in good shape.

Methodology

- 80 individual paths were traveled (biked) for mapping/inventory and rated for condition.
- Random 1/10th mile sections were examined and pictures were taken on each path to help determine the total path condition and maintenance needs.
- Intersections and striped paths were collected but not used to determine the maintenance needs

Inventory

- There is about 180 miles of Shared Use Paths

Division	Asphalt Miles	Concrete Miles	Gravel Miles	Striped Bike Lane Miles	Total Miles
Missoula (11)	65.75	3.35	3.65	0.35	73.1
Kalispell (12)	34.15	0.55	0.00	2.10	36.8
Butte (21)	8.85	0.20	0.00	0.00	9.1
Bozeman (22)	30.55	1.70	3.80	0.00	36.1
Great Falls (31)	11.60	0.90	0.00	3.60	16.1
Havre (32)	3.40	0.00	0.00	1.40	4.8
Wolf Point (42)	0.70	0.00	0.00	0.00	0.7
Miles City (43)	2.00	0.00	0.00	0.00	2.0
Billings (51)	0.40	0.40	0.00	0.00	0.8
Lewistown (53)	0.00	0.00	0.00	0.00	0.0
State Wide Totals	157.4	7.1	7.5	7.5	179.5

Examples of Path Pavement Needs

Path in Excellent/Good Condition



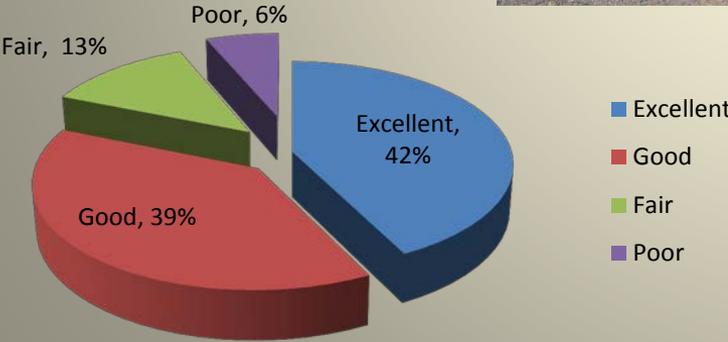
Paths in Fair Condition



Paths in Poor Condition



Condition

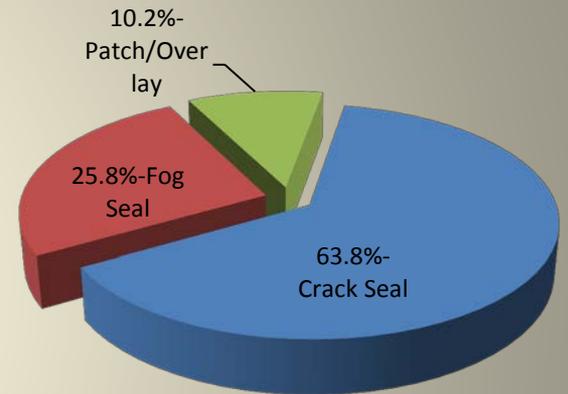


Maintenance Plan

- Three Types of maintenance activities
 - The **current maintenance needs**. The maintenance needs range from simple monitoring to a combination of pavement treatments
 - The annual **general maintenance** activities of shared use paths include snow removal, sweeping, mowing and monitoring
 - **Pavement preservation maintenance** consists of crack sealing, fog sealing and pavement overlays.

Current Maintenance Needs

- The current maintenance needs of the shared use paths total approximately **\$356,000.00**.
- This is a one-time cost and will get the paths to an excellent/good condition.
- Under current agreements, a little over \$196,000 of the total current maintenance costs is city/county responsibilities, while MDT is responsible for just over \$160,000



General Maintenance

- The annual costs for the general maintenance activities of shared use paths—which include snow removal, sweeping, mowing—is just under **\$660,000**, which is mostly snow removal costs (about \$614,000 annually)
- Approximately \$530,000 (about \$493,000 for snow removal) of those costs are the responsibilities of city/county
- Approximately \$130,000 (about \$121,000 for snow removal) are the responsibilities of MDT

Pavement Preservation Plan

- **Pavement preservation maintenance** where MDT recommends a
 - crack seal every four years - \$1600 to \$4800/mile,
 - a fog seal every eight years - \$1,100/mile and,
 - pavement overlay every 25 years - \$29,500/mile.
- In order to calculate the costs of these pavement preservation activities, MDT assumes that $1/4^{\text{th}}$ of the paths will be crack sealed every year, $1/8^{\text{th}}$ of the paths will be fog sealed and $1/25^{\text{th}}$ of the paths will have an overlay every year.

Pavement Preservation Continued

- Annual **Pavement Preservation Maintenance** needs are estimated to be slightly over **\$270,000**.
- The annual costs for Pavement preservation activities for city/counties are about \$130,000 per year
- MDT is responsible for about \$140,000 per year

Funding

- MDT will attempt to leverage federal funds and state funds for preventative maintenance of these paths.
- MDT will work with cities/counties to help them leverage federal funding for preventative maintenance of existing paths—example could be Transportation Alternatives

Thank you for Your Time

Questions?

Jon Swartz

Maintenance Administrator

joswartz@mt.gov

(406)444-6158