

## Active and Recently Completed Research Projects <sup>1</sup>

### April 1, 2025

Problem Statement #	Project Number	Title	Technical Panel (TP) Members	Project Status	Consultant	% Complete (Time)
N/A	8882-444	<p><a href="#">Traffic Safety Culture: Phase 2</a></p> <p>Projects 8882-444-17, -18, -21, -24, and -25: MGMT Support (2020-2024 FFY)            Project 8882-444-19: A Review of Methods to Change Beliefs            Project 8882-444-20: Resources and Tools to Reduce Multi-Risk Driving Behaviors            Project 8882-444-22: Resources and Tools to Improve Pedestrian Safety            Project 8882-444-23: Understanding Aggressive Driving and Ways to Reduce It - Phase 1            Project 8882-444-26: Understanding Aggressive Driving and Ways to Reduce It - Phase 2</p>	Janet Kenny, Rebecca Ridenour, Laura Whitten, Bob Seliskar, CT DOT, GA DOT, IA DOT, IL DOT, ITD, KS DOT, KY DOT, LA DOT, MI DOT, MN DOT, MS DOT, NV DOT, TX DOT, UT DOT, VT AOT, and WA DOT	N/A	<p>WTI  <b>8882-444-17, 18, 19, 20, 21, 22, 23 &amp; 24</b>            10/19-4/25</p> <p><b>8882-444-25</b>            11/24-10/24</p> <p><b>8882-444-26</b>            5/24-3/26</p>	17: 100 Complete 18: 100 Complete 19: 100 Complete 20: 100 Complete 21: 100 Complete 22: Complete 23: 100 Complete 24: 100 Complete 25: 42 26: 42
14-031	5896-423	<a href="#">Wildlife Accommodations Process Implementation</a>	Bill Semmens	Implementation	MDT 2/19-4/25	99
18-009	9596-617	<a href="#">Testing Wildlife-Friendly Fencing Modifications to Manage Wildlife and Livestock Movements Implementation</a>	Larry Sickerson	Implementation	MDT 7/21-4/25	98
19-001	9679-699	<a href="#">Effectiveness of Highway Safety Public Education at Montana Motor Vehicle Registration Stations by Streaming a Variety of Safety Content</a>	Tammy Ross	Implementation	MDT 10/24-10/29	10
19-005	9679-699	<a href="#">Developing a Methodology for Implementing Safety Improvements on Low-Volume Roads in Montana</a>	Gabe Priebe	Implementation	MDT 2/24-2/29	23
19-019	9696-700	<a href="#">Bridge Deck Cracking Evaluation Implementation</a>	Paul Bushnell and Matt Needham	Implementation	MDT 5/23-5/28	35
20-011	9831-765	<a href="#">Development of Deterioration Curves for Bridge Elements in Montana Implementation</a>	Andy Cullison	Implementation	MDT 4/24-4/29	22

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21-012	9929-819	Artificial Intelligence (AI) Based Tool to Estimate Contract Implementation	Brett Harris	Implementation	MDT 1/24-1/29	23
20-008	9890-784	A Feasibility Study of Road Culvert Bridge Deck Deicing Using Geothermal Energy (Mohammad Khosravi)	Jeff Jackson (Chair), DJ Berg, Lee Grosch, Mike Murolo, Matt Steveson, Miles Yerger, Stephanie Brandenberger/FHWA	Approved 6/24/20	MSU 7/20-5/25	97
21-009	9932-820	Safety Evaluation of Sinusoidal Centerline Rumble Strips (Eric Donnell)	Gabe Priebe (Chair), Jodi Bachini, Patricia Burke, Joe Radonich, Pete Serval, Matthew Ulberg/LTAP, Bob Seliskar/FHWA	Approved 9/28/21	PSU 1/22-7/26	71
21-011	9923-808	Effective Wildlife Fences Through Better Functioning Barriers at Access Roads and Jump-Outs (Marcel Huijser)	Shane Talley (Chair), Aaron Mason, Lawrence Sickerson, Nathaniel Walters, Darrell Williams	Approved 10/28/20	MSU 12/20-3/26	81
22-012	10119-878	Development of P-Y Curves for Analysis of Laterally Loaded Piles in Montana (Mohammad Khosravi)	Lee Grosch (Chair), Paul Hilchen, Jeff Jackson, Lenci Kappes, Stephanie Brandenberger/FHWA	Approved 12/17/21	MSU 5/22-11/26	64
22-014	10118-877	Organization and Analysis of Measurement While Drilling (MWD) Data (Curtis Link)	Jeff Jackson (Chair), Jack Dartman, Paul Hilchen, Jon Neace, Matt Strizich/FHWA	Approved 8/5/22	MT 9/22-3/25	100
23-001	10336-933	Significant Factors of Bridge Deterioration (Damon Fick)	Andy Cullison (Chair), Henry Henning, Charles Horinek, Stephanie Brandenberger/FHWA	Approved 12/1/22	MSU 1/23-2/25	100
23-006	10337-932	Use of Fiber-Reinforced Polymer Composites for Bridge Repairs in Montana (Kirsten Matteson)	Lenci Kappes (Chair), Meghan Coon, David Crumley, Jessica Jenks, Tyler Steffan, Stephanie Brandenberger/FHWA	Approved 12/1/22	MSU 1/23-3/26	71
23-007	10626-046	Evaluation of Renewable Sources to Power MDT-Owned Buildings and Facilities	Aaron Anderson (Chair), Brian Andersen, Robert Heiser, David Lemieux, Mike Murolo, Stephanie Brandenberger/FHWA	Proposed 8/31/22		
23-020	10404-954	The Future of Transportation Funding in Montana (Alice Beattie)	Kendra Smith (Chair), Eric Belford, Jeannie Lake, Dorianne Minkoff, Nicole Pallister, Marie, Stump	Approved 6/21/24	HSC 8/24-2/26	44
23-021	10403-955	Bringing Montana's History into the Future: Modernizing MDT's Interpretive Marker System (Natalie Villwock-Witte)	Jon Axline (Chair), Brian Andersen, Kira Axline, Jon Swartz, TBD/FHWA	Approved 3/27/24	MSU 4/24-10/25	63
24-005	10523-0004	Remediation of Deicer Salt Contaminated Soils using Native Montana Plants (Laura Fay)	Darcy Goodson (Chair), Aaron Anderson, Steve Felix, Michael Ivanoff, Doug McBroom, Joe Radonich, Scott Brown (MSCA), Joe Weigand/FHWA	Approved 6/28/24	MSU 8/24-9/26	31

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24-006	10470-897	<a href="#">Remote Observation over Time (Drone in a Box) (Jeremy Crowley)</a>	Mike Kuni (Chair), Curtis Buckley, Lee Grosch, Paul Hilchen, Justun Juelfs, Cameron Kloberdanz, Patrick McCann, Ethan Ritzen, Matt Steveson, Patrick Dryer (AKDOT), Raja Nagisetty (MTech), Stephanie Brandenberger/FHWA	Approved 7/25/24	UM 8/24-9/26	31
24-015		<a href="#">27th Street RR Crossing - Billings</a>	Shaun Sampson (Chair), John Althof, Phill Balsley, Stanton Brelin, Jack Dartman, Zach Kirkemo, Katie Potts/FHWA	Proposed 10/2/23		ON HOLD
25-004	10609-037	<a href="#">Highway Speed Micro &amp; Macro-Texture Data Collection &amp; Processing for Pavement Friction (Kelvin C.P. Wang)</a>	D.J. Berg (Chair), Chad DeAustin, Dan Kriston, Matt Needham, David Relph, Miles Yerger, Oak Metcalfe/FHWA	Approved 3/3/25	MSU 3/25-4/27	8
25-006	10608-036	<a href="#">MDT as the Employer of Choice for Talent</a>	Sharon Duncan (Chair), Joey Beran, Jodi Bachini, Jen Johnson, Adam Kraft, Renae Lang, Drew McNally, Maghan Strachan, Michelle Wheat, TBD/FHWA	Proposed 6/13/24		
25-011	10607-035	<a href="#">Assessing the Impacts and Challenges of Truck Platooning on Highway Infrastructure in Montana (Sherif Gaweesh)</a>	Jason Hughey (Chair), Eric Belford, Mike Poole, Mike Warren, Stephanie Brandenberger/FHWA	Approved 11/6/24		25
25-018	10660-048	<a href="#">Determining the Testing, Limits and Elimination of CWD Prions in Composting Byproducts for MDT</a>	Doug McBroom (Chair), Aaron Anderson, Bevin McCormick, Paul Sturm, Heather Abernathy (RMEF), Joe Weigand/FHWA	Proposed 12/11/24		

1. Projects which have been completed for six months are removed from this list in June and December. Click on [All Projects Listing](#) to view all research projects.