

**TRANSPORTATION POOLED FUND PROGRAM  
QUARTERLY PROGRESS REPORT – Q3/2023**

Lead Agency (FHWA or State DOT): Washington State Department of Transportation (WSDOT)

**INSTRUCTIONS:**

Lead Agency contacts should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

<b>Transportation Pooled Fund Program Project #</b> TPF-5(343)		<b>Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> <b>Quarter 3 (July 1 – September 30)</b> <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>TPF Study Title:</b> <a href="#">Roadside Safety Research for MASH Implementation</a>			
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<b>Lead Agency Project ID:</b> T4541	<b>Other Project ID (i.e., contract #):</b> GCB	<b>Date of Quarterly Report Submission:</b> 10/31/2023	
<b>Project Start Date:</b> 1/1/2016	<b>Original Project End Date:</b> 12/31/2021	<b>If Extension has been requested, updated project End Date:</b> 12/31/2023	

**Project schedule status:**

<input type="checkbox"/> On schedule	<input checked="" type="checkbox"/> On revised schedule	<input type="checkbox"/> Ahead of schedule	<input type="checkbox"/> Behind schedule
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**Overall Project Statistics (excluding bilateral and supplemental projects with individual states):**

Commitments to date \$ (7yrs)	Obligations to date \$	% Obligated	Contracted to date \$	Expended to date \$	Expended to date %	Completed this quarter \$
7,205,363	6,751,686	93.70%	6,605,148	5,320,861	80.56%	292,277

## Project Description:

### Project website: <https://www.roadsidepooledfund.org/> (members only)

The Roadside Safety Research for MASH Implementation program is designed to conduct research on roadside safety priorities for research projects aligned with the MASH implementation completion schedule. The compliance dates for MASH roadside safety hardware are:

- December 31, 2017: W-beam barriers and cast-in-place concrete barriers
- June 30, 2018: W-beam tangent terminals
- December 31, 2018: Crash cushions
- December 31, 2019: Bridge rails, transitions, all other longitudinal barriers (including portable barriers installed permanently), all other terminals, sign supports, other breakaway hardware, cable barriers, cable barrier terminals
- Also, temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH.

Washington State Department of Transportation is the lead agency for this pooled fund study. Texas A&M Transportation Institute (TTI) is the lead Principal Investigator and crash test site. A website is available to those interested in completed and ongoing research as well as the work plan for new inquiries.

## Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

The following tasks were completed in this quarter:

- Work continued on the following projects:
  1. T4541-EM: Multi-Directional Base Design for Steel Beam Non-Proprietary Large Sign Supports: Phase I
  2. T4541-EQ: 2022 Program Development and MASH Coordination Effort
  3. T4541-ER: Engineering Support Services and Recommendations for Roadside Safety Issues/Problems for Member States
  4. T4541-ES: MASH 4-12 Evaluation of a Fence Mounted System for Attachments to Concrete Bridge Barrier
  5. T4541-ET: MASH Testing of a Guardrail System on 1H:1V Slope
  6. T4541-EV: MASH Crashworthy Pedestrian and Small Traffic Signals
  7. T4541-EW: 2022 Administrative Support
  8. T4541-EX: Buried-in-Backslope Terminal Variations in Foreslope, Backslope, and Ditch Configurations
  9. T4541-FB: MASH TL-3 Evaluation of a Median Guide Rail Transition to Median F-Shape Concrete Barrier
  10. T4541-FC: Evaluation of a Four Bolt Slip Base for breakaway Luminaire Supports with Various Pole Configurations
  11. T4541-FD: Portable Sign Supports for Aluminum Signs with Variations on Mounting Height
  12. T4541-FE: MASH Test level 3 Evaluation of a Shorter Thrie-Beam Approach Transition
  13. T4541-FF: Steel-Post W-Beam Guardrail in Asphalt Mow Strip
  14. T4541-FG: Evaluation of Open Joints in Concrete Bridge Rail Systems

### Anticipated work next quarter:

- Continue carrying out the research plan for testing projects approved at the Fall 2022 Roadside Safety Pooled Fund Annual Meeting.
- Finalize the logistics, agenda, etc. of the Fall 2023 Roadside Safety Pooled Fund Meeting.
- Conduct the Fall 2023 Roadside Safety Pooled Fund Meeting in Bryan, TX.

### Significant Results:

Explored successfully possible further 6-month extension to the program to enable utilizing the unexpected availability of funds that were in arrears that member states eventually obligated at the end of last year.

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

The researchers face a tight deadline and a pretty intensive schedule for the next 6 months or so in order to complete the portfolio of ongoing tasks and projects by the end of the year. Several meetings have been held with TTI and FHWA to identify the risks and opportunities the program faces as we close this important program and transition into the new [TPF-5\(501\) Roadside Safety Pooled Fund - Phase 3](#). TTI remains confident that the scope of work that remains – about \$1.5m remaining on task orders, will be complete as planned.

**Potential Implementation:**

Implementation ongoing following successful tests for MASH compliance.