

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT – Q1/2024

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.

Transportation Pooled Fund Program Project # TPF-5(343)		Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
TPF Study Title: Roadside Safety Research for MASH Implementation			
Lead Agency Contact: Mustafa Mohamedali, PE, PMP	Lead Agency Phone Number: 360-704-6307	Lead Agency E-Mail: mohamem@wsdot.wa.gov	
Lead Agency Tech Contact: Tim Moeckel, PE	Tech Phone Number: 360-704-6377	Tech E-Mail: moeckel@wsdot.wa.gov	
Lead Agency Project ID: T4541	Other Project ID (i.e., contract #): GCB	Date of Quarterly Report Submission: 7/31/2024	
Project Start Date: 1/1/2016	Original Project End Date: 12/31/2021	If Extension has been requested, updated project End Date: 6/30/2024	

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
--------------------------------------	---	--	--

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%	6,509,876	6,376,422	97.94	1,055,561

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:

1. T4541-EM: Multi-Directional Base Design for Steel Beam Non-Proprietary Large Sign Supports: Phase I
2. T4541-ES: MASH 4-12 Evaluation of a Fence Mounted System for Attachments to Concrete Bridge Barrier
3. T4541-EV: MASH Crashworthy Pedestrian and Small Traffic Signals
4. T4541-EX: Buried-in-Backslope Terminal Variations in Foreslope, Backslope, and Ditch Configurations
5. T4541-FC: Evaluation of a Four Bolt Slip Base for breakaway Luminaire Supports with Various Pole Configurations
6. T4541-FD: Portable Sign Supports for Aluminum Signs with Variations on Mounting Height
7. T4541-FH: Summary Report for Pooled Fund Program TPF-5(343)

Anticipated work next quarter:

This is the last quarter of the program and no further work is forthcoming.

Significant Results:

The last 6-month extension to the program executed in 2023 has enabled us to utilize the unexpected obligation of funds that were in arrears that member states eventually obligated towards the end of 2022

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 faced a tight deadline and a pretty intensive schedule for the last 6 months or so in order to complete the portfolio of ongoing tasks and projects by the revised end-date. Several meetings were held with TTI and FHWA to identify the risks and opportunities the program faced as we close this important program and transition into the new [TPF-5\(501\) Roadside Safety Pooled Fund - Phase 3](#).

Potential Implementation:

Implementation ongoing following successful tests for MASH compliance.