

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: **4/15/2020**

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

INSTRUCTIONS:

Project Managers and/or research project investigators 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) Roadside Safety Research for MASH Implementation	Transportation Pooled Fund Program - Report Period: <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31) <input 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)	
Project Title: MASH Implementation		
Name of Project Manager(s): Mustafa Mohamedali	Phone Number: 360-704-6307	E-Mail: mohamem@wsdot.wa.gov
Lead Agency Project ID: N/A	Other Project ID (i.e., contract #): GCB	Project Start Date: 2016
Original Project End Date:	Current Project End Date: 2021	Number of Extensions:

Project schedule status:

On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
This varies depending upon member states contributions status at any given time.	\$3,382,000	The scope of work is decided in Sep of each year to work on going forward based on the member state contribution levels

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
Per project cost to date	\$172,600	80% (annualized)

Project Description:

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.

<https://www.roadsidepooledfund.org/>

Progress these Quarters (includes meetings, work plan status, contract status, significant progress, etc.):

The following tasks were completed in these quarters:

- The following new Task Orders were issued this quarter:
 1. T4541-DX: Design and Testing of a MASH TL-3 Thrie-Beam System for Roadside and Median Applications
- Work continued on the following projects:
 1. T4541-CR: Placement of Guardrail on Slopes Phase IV: MASH TL-3 Testing of Guardrail
 2. T4541-CU: 2018 MASH Coordination Effort
 3. T4541-CV: Testing and Evaluation of the MGS System with Maximum Flare at MASH Test
 4. T4541-CW: Testing of Midwest Guardrail Systems with Reduced Post Spacing for MASH Compliance
 5. T4541-CZ: Thrie/W-Beam/Tubular Barrier Gap Rail for MASH TL-3
 6. T4541-DB: Engineering Support Services and Recommendations for Roadside Safety Issues/Problems for Member States
 7. T4541-DG: MASH TL-4 Investigation and Testing of the Critical Flare Rate for Cast-in-Place Single Slope 42" Concrete barrier Flaring Around a Fixed Object
 8. T4541-DJ: Testing and Evaluation of Large Signs Slipbase Support on Slope at MASH TL-3 Impact Conditions
 9. T4541-DL: A Study of Guardrail Placement on 6:1 Slope
 10. T4541-DM: 2019 Administrative Support
 11. T4541-DN: MASH TL-4 Testing and Evaluation of a Concrete Median Barrier with Fence Mounted on Top
 12. T4541-DO: Shorter TL-3 MASH W-Beam Transition
 13. T4541-DP: Review and Investigation of W-Beam Guardrail Terminals with Curbs
 14. T4541-DQ: 2019 MASH Coordination Effort
 15. T4541-DR: Engineering Support Services and Recommendations for Roadside Safety Issues/Problems for Member States
 16. T4541-DT: Determination of the Length-of-Need for Guardrail Without Anchorage: Phase 1
 17. T4541-DU: 2020 Administrative Support
 18. T4541-DV: Study of Acceptable Sidewalk Heights and Widths
 19. T4541-DW: Design and Testing of a Thrie-Beam Guardrail System at a Fixed Object
- Work was completed on the following projects:
 1. T4541-DS: 2019 Travel and Meeting Assistance

Additional project information and project activities is available by visiting the pooled fund web site:

<https://www.roadsidepooledfund.org/>.

Anticipated work next quarter:

- Continue carrying out the research plan for testing projects approved at the September 2019 Roadside Safety Pooled Fund Annual Meeting.
- Plan the logistics, agenda, etc. of the Fall 2020 Roadside Safety Pooled Fund Meeting.

Significant Results:

TBD

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).

No issues at this time.

Potential Implementation:

Ongoing