



Project Title:	MASH TL-3 Compliance for Median Guide Rail Transition to F-Shape Barrier
Project Synopsis:	Evaluate and develop a design for transition of strong post median guide rail to precast/cast-in-place F-Shape barrier. In addition, review and evaluate other less critical concrete barrier shapes and heights (e.g., vertical concrete barrier).
Project Goal(s):	Evaluate and develop guidelines for a MASH TL-3 compliant transition from strong post median guide rail to various heights of precast/cast-in-place F-Shape barrier. In addition, review and evaluate other less critical concrete barrier shapes and heights (e.g., vertical concrete barrier).
Project Background:	<p>PennDOT has run into several scenarios where strong post median guide rail must be connected to an F-Shape barrier. Establishing a MASH compliant transition between strong post median guide rail and an F-Shape barrier would provide the safest possible transition for any state to use.</p>  <p><i>Figure 1. Example of Median Transition to F-Shape Barrier.</i></p> <p>A median transition from a median guide rail to single slope barrier was recently evaluated according to MASH TL-3 evaluation criteria. It was found acceptable for MASH TL-3. Some of the details from the single slope design will likely be used for the transition to an F-Shape barrier.</p>  <p><i>Figure 2. MASH TL-3 TxDOT Median Transition to Single Slope Barrier.</i></p>

Proposed Work Plan:	
Deliverables:	
Urgency and Expected Benefit:	PennDOT uses transitions from strong post median guide rail to F-Shape barriers, so there is a need to develop a MASH approved system, which all states could use if desired. This would provide consistency and maximum safety for any transitions being made between these barriers. Guidance would be provided for transitioning median guide rail to various concrete barrier shapes and heights.
Problem Funding and Research Period:	
Developer(s) of the Problem Statement:	Name: Hassan Raza Email: hraza@pa.gov Phone: 717-783-5110