

Project Title:	Effect of commonly used accessories such as Lights, sensors, sandbag ballast, and solar panels on crashworthiness of work zone category 1 and category 2 devices under MASH testing.
Project Synopsis:	<i>Lightweight channelizing devices commonly referred as Category 1 devices have been allowed to continue to be self-certified under MASH testing requirements. Under NCHRP 350, drums with lights were allowed to continue to be self-certified. However, this has not been clarified under MASH. The researcher will evaluate the crashworthiness of Category 1 and Category 2 (Type I or Type II barricades) devices with attached accessories.</i>
Project Goal(s):	<i>Evaluation of Category 1 and Category 2 (Type I and Type II barricades) with attached accessories</i>
Project Background:	<i>Lightweight channelizing devices commonly referred as Category 1 devices have been allowed to continue to be self-certified under MASH testing requirements. Under NCHRP 350, drums with lights were allowed to continue to be self-certified. However, this has not been clarified under MASH. Furthermore, Category 2 devices need to be evaluated under MASH for crashworthiness with their appropriate accessories attached. Much testing has been completed on Type III barricades, and the Pooled Fund already has a problem statement for evaluating a Type III barricade with mounted signs.</i>
Proposed Work Plan:	<p><i>Task 1: Engineering Review</i> <i>This task will review current Category 1 and Category 2 (Type I or Type II barricades) and available accessories. This task will also develop a testing plan for Task 2.</i></p> <p><i>Task 2: MASH Crash Testing</i> <i>This task will crash test Category 1 and Category 2 (Type I or Type II barricades) with mounted accessories.</i></p>

Deliverables:	<ul style="list-style-type: none">-Guidance on mounting accessories on Category 1 devices.-Non-proprietary crash tested designs for Type I and Type II barricades with mounted accessories-Technical report documenting the work completed in this project
Urgency and Expected Benefit:	This project will provide the states with guidance on mounting accessories on Category 1 devices. The project will also provide the states with non-proprietary crash tested designs for Type I or Type II barricades.
Problem Funding and Research Period:	\$130,000 12 months
Developer(s) of the Problem Statement:	Name: Juan Pava Email: juan.pava@illinois.gov