

2019-28-WZ

Project Title:	Testing of category two sign and barricade systems and ballast guidelines.
Project Synopsis:	Evaluate category two sign and barricade systems to determine acceptable ballast practices.
Project Goal(s):	Testing of category two sign and barricade systems to determine acceptable ballast practices.
Project Background:	Most state DOT use temporary signs for shorter durations projects (under 14 days in Michigan) where signs are not driven into the ground, or projects where the closure is placed and removed daily. These signs and barricades require ballast to be utilized. Under NCHRP 350 Sand bags were allowed to be utilized. The acceptable number and size of the sand bags needs to be detailed out under MASH to allow this everyday practice to be utilized.
Proposed Work Plan:	<u>Tasks:</u> 1. Literature Review and Engineering Analysis 2. Construction and Demolition 3. MASH TL-3 Full-Scale Crash Testing and Reporting

Deliverables:	A report providing details of the category two sign and barricade systems ballast guidelines.
Urgency and Expected Benefit:	To be able to continue using daily lane closure and place signs on paved surfaces, DOTs and contractors must know the correct and safe method for ballasting signs.
Problem Funding and Research Period:	 Funding Total Estimated Cost = \$105,000 Note: Budgeting for four full-scale crash tests Work Schedule: (Project Duration = 10 months from initiation of the project) Task 1 = 3 months Task 2 = 3 months Task 3 = 4 months
Developer(s) of the Problem Statement:	Name: Chris Brookes, Work Zone Delivery Engineer Email: <u>Brookesc@Michigan.gov</u> Phone: 517-636-0300