

<p>Project Title:</p>	<p>Crashworthy Enhanced Highway Sign Assemblies</p>
<p>Project Synopsis:</p>	<p><i>MASH Crashworthiness evaluation of Various Enhanced Highway Signing Options (i.e., RRFB's, Highlighted Signs, Flashing Beacons, Speed-Feedback Signs, etc.) installed on Transformer Bases.</i></p>
<p>Project Goal(s):</p>	<p>Provide MASH Crashworthy designs of breakaway Enhanced Highway Sign Assemblies.</p>
<p>Project Background:</p>	<p><i>There are many options for enhancing highway signs as outlined in the MUTCD, and in some cases through FHWA Interim Approvals (i.e., RRFB's). All of these options require different sign panels of varying weights and sizes, can be powered using solar panels or conventional service points, and have controller/battery cabinets. To-date there has been no comprehensive crash testing or evaluation completed to provide guidance on the crashworthy design of these systems.</i></p> <p><i>Examples of these assemblies can be viewed on FDOT Standard Plans, Indexes 700-120 and 654-001.</i></p>
<p>Proposed Work Plan:</p>	<p><i>Crash test worse-case assembly details based on information gathered from the member states and establish guidelines for acceptable mounting hardware (i.e., heights, size, and mass of sign panels and associated equipment). Some testing has been done by TTI for TxDOT (Report 0-6946-1) for crash testing Flashing Beacons and Controller Cabinets on post supports mounted on transformer bases.</i></p> <p>- To be done in coordination with TTI -</p>

<p>Deliverables:</p>	<p>Guidelines (i.e., minimum maximum design parameters) for establishing MASH Compliant Enhanced Highway Assemblies.</p>
<p>Urgency and Expected Benefit:</p>	<p><i>Needed for MASH Implementation of Breakaway Devices. Provide MASH Compliant Pedestrian Enhanced Highway Assemblies.</i></p>
<p>Problem Funding and Research Period:</p>	<p><i>Please describe what are the estimated costs and time to complete the project</i> - To be done in coordination with TTI -</p>
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