

Project Title:	Galvanized Steel "Goal Post" Type Pipe Post Sign Supports MASH Compliance
Project Synopsis:	The project will review existing literature, analyze current design and propose modifications, evaluate final design through computer simulations, and perform MASH crash testing.
Project Goal(s):	Evaluate crashworthiness of breakaway steel "goal post" type sign supports according to MASH. In addition, evaluate design modification for omni-directional impacts.
Project Background:	<p><i>These support systems are typically used in relatively low speed, urban environments where available right of way is highly restricted and/or available sidewalk width for pedestrians would be too restricted by using a multiple support system.</i></p> <p><i>Breakaway steel supports were previously approved under NCHRP Report 350. To date, no MASH crash testing has been performed on these types of sign support systems.</i></p>
Proposed Work Plan:	<p>The proposed work plan includes the following tasks:</p> <ul style="list-style-type: none"> • Literature Review • Engineering Analysis and Design Modifications • Computer Simulations • MASH TL-3 Crash Testing • Final Report

Deliverables:	Crash test report, photos, videos, summary of results and performance evaluation summary.
Urgency and Expected Benefit:	Successful completion of this project will result in the availability of a non-proprietary support system for use typically in relatively low speed, urban environments where available right of way is highly restricted and/or available sidewalk width for pedestrians would be too restricted by using a multiple support system.
Problem Funding and Research Period:	The estimated costs to complete the proposed project is \$200,000. Estimated time to complete the project is 18 months.
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