

Baltimore MPO Update on MDOT SHA Implementation of Vision Zero Act

December 15, 2022

MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION



What We'll Cover

- Overview
- The approach
- The tools



Article – Transportation §8–204.2

(a) The Administration shall conduct an infrastructure review of each pedestrian or bicyclist fatality that occurs:

(1) On a State highway; or

- (2) At an intersection of a State highway and another highway or a municipal street.
- (b) The Administration's infrastructure review shall identify:
 - (1) Deficiencies in engineering, traffic control, and traffic operations; and
 - (2) Appropriate corrective actions and crash reduction countermeasures that are consistent with the United States Department of Transportation's best practices and the State's Vision Zero program established under Subtitle 10 of this title, if warranted.
- (c) In conducting an infrastructure review, the Administration shall consider:
 - (1) Highway context, such as proximity of the highway to mass transit and whether the highway is in an urban or rural area;
 - (2) The different modes of transportation using the highway; and
 - (3) Prior crashes in the vicinity.

(d) The Administration shall:

(1) Complete an infrastructure review within 6 months after being notified by law enforcement of a pedestrian or bicyclist fatality; and

(2) Publish the review on its website.

What MDOT SHA will do....

(a) The **Administration shall conduct an infrastructure review** of each pedestrian or bicyclist fatality that occurs:

(1) On a State highway; or

(2) At an intersection of a State highway and another highway or a municipal street.



Specific items of review....

(b) The Administration's infrastructure review shall identify:

(1) Deficiencies in engineering, traffic control, and traffic operations; and
(2) Appropriate corrective actions and crash reduction countermeasures that are consistent with the United States Department of Transportation's best practices and the State's Vision Zero program established under Subtitle 10 of this title, if warranted.

Fatality Infrastructure Review - form....



Fatality Infrastructure Review - application

Date of the incident?							
a							
Date notified?	District?						
<u> </u>	District 1 District 2 District 3 District 4 District 5 District 6						
Date of this investigation?	Route (eg. MD 100, US 50, I-97)?						
<u> </u>	[.						
Source of notification?		Pavement marking type? Comment					
	Nearest intersection or cross road?	Longitudinal Markings (eg. broken, double solid, etc.) Transverse Markings (eg. stop bar, crosswalk, etc.)					
Comment		Arrow Markings (eg. one direction, two directions) Hazard Markings (eg. hatch markings, chevrons, etc.)					
		Directional Markings or Word Messages (eg. Stop, Slow, School, etc.)					
	Mile point?	Facility Markings or Parking (eg. Bus Stop, Fire Hydrant, etc.) Other Pavement marking condition?					
1 Poor 2 Bad 3 Good 4 Very Good 5 Excellent							
		Delineation present (eg. rail riders, snow guide steaks, etc.)?					
		Yes No Other					

Contextually painting the picture....

(c) In conducting an infrastructure review, the Administration shall consider:
(1) Highway context, such as proximity of the highway to mass transit and whether the highway is in an urban or rural area;
(2) The different modes of transportation using the highway; and

(3) **Prior crashes** in the vicinity.

Legend

Maryland Transit - MTA Bus Stops - MTA Bus Stops

🛅 Bus

- Commuter Bus
- Bus/Commuter Bus

MSCAN Accident Locations

MDOT SHA Annual Average Daily Traffic (AADT) - MDOT SHA Annual Average Daily Traffic (AADT) Segments

AADT (Current) > 50,000 + > 20,000 - 50,000 ----- > 5,000 - 20,000 < 5,000



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How it will be shared with the public....

(d) The **Administration shall**:

(1) Complete an infrastructure review within 6 months after being notified by law enforcement of a pedestrian or bicyclist fatality; and
(2) Publish the review on its website.

https://mdot-sha-fatal-crash-evaluation-maryland.hub.arcgis.com/

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Fatal Crash Evaluation

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Evaluations

Fatal crashes are pre Roadways and intersections are designed and built based upon certain assumptions and standards Over time, as neighborhoods and transportation needs change, road use also changes. These changes may lead to underperformance of some roadway

At the Maryland State Highway Admini designs in terms of safety and mobility. Engineers and planners continually evaluate traffic system data and look for ways to address safety and mobility uses a multi-disciplinary approach to crineeds in a timely and cost-efficient manner.

MDOT SHA-maintained roadways, traff Highway Infrastructure Related Crash

MDOT SHA evaluates all fatal crashes on state highways to determine whether an number of lanes, shoulder condition, width of lanes), junction type (gradient, lenge delineators, pavement markings, streetlights), and work zones.

Context Driven Improvements

The goal of Zero Deaths Maryland is to zero roadway fatalities and serious inju problems that are to be solved. MDOT proactive elements that enhance safet

signed Ins					_				
1-20220	pection 0930-2934								
Date 2	Assigned To		Status Inspected						
s Qu	uestion Responses	De	ficiencies	Asses	sments	; N	/ISP F	leport	Ma
Inspection Name Fatality Infrastruc		ucture Re	view		Status			Inspected	6
Assigned AI-20220930-29 Inspection Name		934							
	Date 2 s Qu ion Name	Assigned To 2 S Question Responses on Name Fatality Infrastru d AI-20220930-25	Assigned To 2 S Question Responses De on Name Fatality Infrastructure Re d AI-20220930-2934	Assigned To Status 2 Status Inspected S Question Responses Deficiencies S Al-20220930-2934	Assigned To Status 2 Inspected S Question Responses Deficiencies Asses Inspected S Question Responses Deficiencies Asses Inspected Inspected S Question Responses Deficiencies Asses Inspected Inspecte	Assigned To Status 2 Inspected S Question Responses Deficiencies Assessments on Name Fatality Infrastructure Review Status d AI-20220930-2934	Assigned To Status 2 Inspected S Question Responses Deficiencies Assessments M on Name Fatality Infrastructure Review Status d AI-20220930-2934	Assigned To Status 2 Inspected S Question Responses Deficiencies Assessments MSP R on Name Fatality Infrastructure Review Status d AI-20220930-2934	Assigned To Status 2 Inspected Sector Responses Deficiencies Assessments MSP Report Ion Name Fatality Infrastructure Review Status Inspected d AI-20220930-2934

Evaluation Results

MDOT SHA has a long-standing practice in which District Traffic Engineers evaluate MDOT SHA-maintained infrastructure following all crash-related fatalities that occur on MDOT SHA roads. MDOT SHA modernized the approach to these evaluations and deployed a mobile application to field inspection staff. MDOT SHA's evaluation findings will be assembled with official law enforcement crash records and posted on this map.

Fatal Crash Evaluation Map



Schedule

Implementation Phase	Estimated Schedule		
Digital Evaluation Form	October 2022		
Integration with Law Enforcement Crash Records	April 2023		
Publication of Evaluation Findings	April 2023		

Thank you!