Proposed Systemic(Proactive) HSIP Program

Local Roadways

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Systemic Program

‣ MAP-21
  ◦ Continues the Highway Safety Improvement Program as a core Federal Aid program to reduce fatal and serious injury crashes on all public roads.

  ◦ HSIP Programs
    · Identify projects by reactive approach(hot spot)
    · Identify projects on crash potential(proactive or systemic approach).

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Systemic Program

‣ The systemic approach to safety involves widely implemented improvements based on high-risk roadway features correlated with specific severe crash types.

  ◦ Typical Roadway features include:
    · Horizontal Curve density
    · Driveway presence
    · Annual Average Daily Traffic
    · Number of signal heads/ number of lanes
    · Presence of shoulder / centerline rumble strips

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Systemic Program

▸ Data driven

▸ Analytical techniques to identify site corridors

▸ Approach recommends safety project improvements not typically identified through spot investigations.

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Systemic Program

▸ Typical severe crash types targeted:

◦ Rural Crashes
- Road Departure
- Road Departure on Horizontal Curves
- Intersection
- Head – on
◦ Urban Crashes
- Pedestrian
- Intersection

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Systemic Program

▸ Potential Types of Countermeasures

◦ Roadway
- Shoulder/edge line rumble strips
- Centerline rumble strips
- Install / Upgrade larger and additional warning signs
- Delineation
- Road Diet(striping only)
◦ Signalized Intersections
- Pedestrian countdown heads
- Improve Signal hardware
- Provide Left turn phase (left turn lane already exists)
- Install advance stop bar before crosswalk(bicycle box)
◦ Non-Signalized Intersections
- Install/upgrade larger or additional stop signs or other intersection warning signs
- Upgrade / enhance /install pedestrian crosswalks

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Systemic Program

‣ Benefits of Program
  ◦ Supports Every Day Counts(EDC) II initiative
  ◦ Simple Application process
  ◦ Implement faster – realize fatal and severe injury collision reduction sooner
  ◦ Projects are lower cost per mile
  ◦ More projects to fund around the state
  ◦ No B/C required to qualify
  ◦ No R/W
  ◦ Categorical Exclusion(CE) for NEPA

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