

Big Book of Ideas Engineering Safety Strategies



October 2018



Rural Curves



Chevrons

Crash Reduction Factor

• 20% to 30%

Typical Installation Costs

• \$3,960 per curve





Delineators

Crash Reduction Factor

 18% to 34% non-intersection, head-on, run-off-road, sideswipe, nighttime crash types

Typical Installation Costs

• \$500 per curve





High Friction Surface Treatment

Crash Reduction Factor

- All crash types 24%
- Wet road crash type 52%

Typical Installation Costs

• \$25 to \$35 per square yard





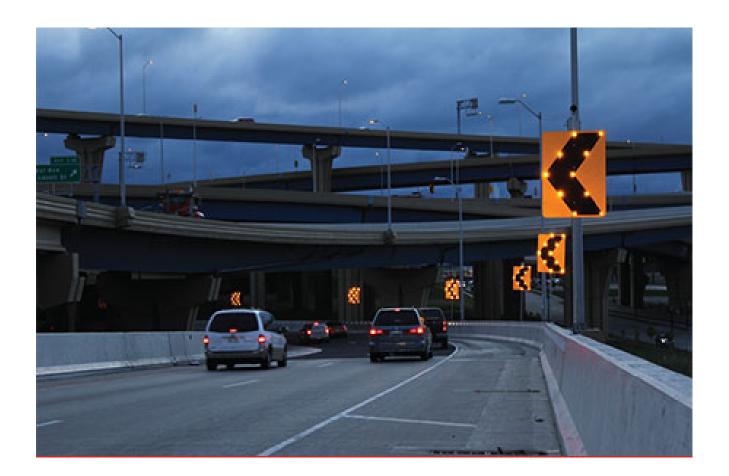
Dynamic Curve Signing

Crash Reduction Factor

• Not Available

Typical Installation Costs

• \$50,000 per curve





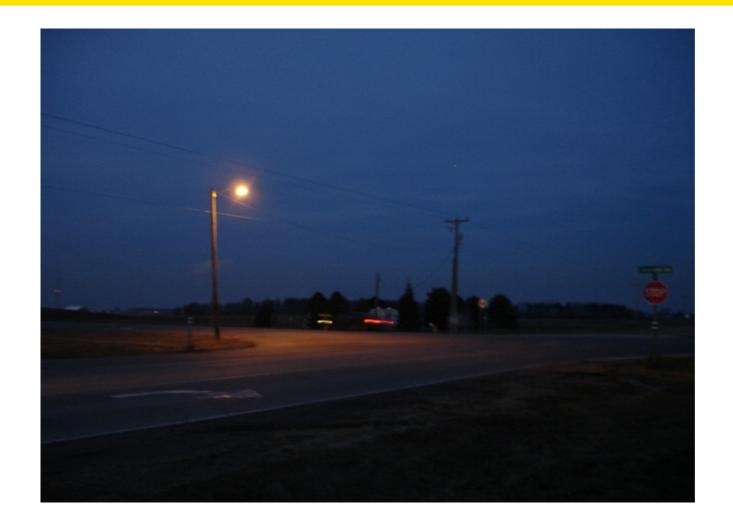
Lighting

Crash Reduction Factor

• See Rural Intersections

Typical Installation Costs

• See Rural Intersections





Clear Zone Maintenance/ Enhancements

Crash Reduction Factor

 Fatal, serious, & minor injury crashes: increase of 28% to decrease of 18%

Typical Installation Costs

• \$10,000 to \$250,000 per curve





Reconstruct (TT to a Single T Intersection)

Crash Reduction Factor

• Not Available

Typical Installation Costs

• \$150,000 to \$300,000 per curve

