

Field Checklist: Variable LED Speed Limit Signs

This checklist documents observable drift between MUTCD intent and real-world driver experience. Items can be evaluated visually and behaviorally without access to internal agency data.

1. Legibility and Visual Load

<input type="checkbox"/>	Speed numerals are harder to read than nearby static signs.
<input type="checkbox"/>	Brightness causes glare at night or washout during the day.
<input type="checkbox"/>	LED pixelation reduces clarity at highway speeds.
<input type="checkbox"/>	Font weight or proportions differ from standard MUTCD legends.

2. Cue Stability

<input type="checkbox"/>	Speed limits change over short roadway segments.
<input type="checkbox"/>	Changes occur without advance notice.
<input type="checkbox"/>	Adjacent gantries show different speeds without clear boundary.
<input type="checkbox"/>	Drivers must wait to see the sign to know the rule.

3. Change Frequency and Predictability

<input type="checkbox"/>	Speed limits change multiple times in a single trip.
<input type="checkbox"/>	Changes occur without visible cause.
<input type="checkbox"/>	The same location displays different speeds under similar conditions.
<input type="checkbox"/>	Drivers slow before the sign due to uncertainty.

4. Hierarchy Conflicts

<input type="checkbox"/>	Static speed signs remain without clear override.
<input type="checkbox"/>	Drivers must infer which sign governs.
<input type="checkbox"/>	Advisory messages resemble regulatory ones.
<input type="checkbox"/>	Law versus suggestion is visually ambiguous.

5. Behavioral Evidence

[]	Widespread braking at sign approach.
[]	Increased speed variance after installation.
[]	Drivers ignore the displayed limit.
[]	Enforcement appears selective or inconsistent.