



# Traffic Guidelines Manual

ORIGINATOR State Traffic Engineer	2-3-27
CHAPTER 2	Signing
SECTION 3	Warning
SUBJECT 27	BUMP and ROUGH ROAD Signs

## A. Purpose

This policy provides guidance on the use of BUMP signs (W8-1), BUMPS signs (W8-1A), DIP signs (W8-2), and ROUGH ROAD signs (W8-8).

## B. Definitions

A sharp rise or depression is defined as a roadway deficiency that is sufficiently abrupt to create considerable discomfort to passengers, to cause shifting of the cargo, or to deflect a vehicle from its true course at normal roadway driving speeds.

A minor rise or depression is defined as a roadway deficiency that is noticeable enough to drivers to cause a minor discomfort, but not enough of a deficiency to be a safety hazard.

## C. Policy

1. For sharp rises or depressions in the profile of the roadway, the BUMP or DIP sign *should* be installed both in advance of the condition and at the location of the rise or depression. The BUMP or DIP sign installed at the location of the rise or depression **shall** have the diagonal downward arrow sign (W16-7L or W16-7R) installed below it. The BUMP or DIP sign installed in advance of the condition **shall** have the AHEAD sign (W16-9P) installed below it.
2. For minor rises or depressions in the profile of the roadway, the BUMP or DIP sign *may* be installed both in advance of the condition and at the location of the rise or depression. The BUMP or DIP sign installed at the location of the rise or depression **shall** have the diagonal downward arrow sign (W16-7L or W16-7R) installed below it. The BUMP or DIP sign installed in advance of the condition **shall** have the AHEAD sign (W16-9P) installed below it. If the condition is the result of pavement buckling, BUMP signs **shall** be installed both in advance of the condition and at the location of the condition on higher speed roadways (45mph posted speed and above).

3. For segments of roadways with multiple *sharp* rises or depressions, the ROUGH ROAD sign or BUMPS sign *should* be installed in advance of the segment. The advanced location of the ROUGH ROAD sign or BUMPS sign **shall** be supplemented with the NEXT \_\_\_ MILES plaque (W57-51). The BUMP or DIP sign *should* be installed at locations of rises or depressions. The BUMP or DIP sign installed at the location of the rise or depression **shall** have the diagonal downward arrow sign (W16-7L or W16-7R) installed below it.
4. For segments of roadways with multiple *minor* rises or depressions, the ROUGH ROAD sign or BUMPS sign *may* be installed in advance of the segment. The advanced location of the ROUGH ROAD sign or BUMPS sign **shall** be supplemented with the NEXT \_\_\_ MILES plaque (W57-51). The BUMP or DIP sign *may* be installed at locations of rises or depressions. The BUMP or DIP sign installed at the location of the rise or depression **shall** have the diagonal downward arrow sign (W16-7L or W16-7R) installed below it.
5. Type A flashing lights or orange flags *may* be used on the advanced sign assembly, depending on the severity of the bump or dip.
6. Signs *should* have a yellow background. Orange background signs *should* only be used if the roadway deficiencies are construction related.