

616.23.3.11 (TA-11) Lane Closure on Multi-Lane Undivided Highways

| SPEED | SIGN SPACING (ft.) | | TAPER LENGTH (ft.) | | OPTIONAL BUFFER LENGTH (ft.) (B) | CHANNELIZER SPACING (ft.) | |
|-------|--------------------|-------------|----------------------------|------------------------|----------------------------------|---------------------------|--------------------|
| | Undivided (S) | Divided (S) | Shoulder ¹ (T1) | Lane ² (T2) | | Tapers | Buffer/ Work Areas |
| 0-35 | 200 | - | - | 245 | 120 | 35 | 50 |
| 40-45 | 350 | - | - | 540 | 220 | 40 | 100 |
| 50-55 | 500 | - | - | 660 | 335 | 50 | 100 |
| 60-70 | 1000 | - | - | 840 | 550 | 60 | 100 |

¹ Shoulder taper length based on 10 ft. (standard shoulder width) offset ² Lane taper length based on 12 ft. (standard lane width) offset

| ROADWAY TYPE | SIGN HEIGHT | MAXIMUM WORK ZONE LENGTH (L) |
|-----------------|------------------------|------------------------------|
| URBAN | 1' Portable 7' Post | 1 Mi. |
| RURAL UNDIVIDED | 1' Portable 5' Post | 3 Mi. |

- Channelizer
- Sign
- Truck Mounted Attenuator (TMA)
- Truck or Trailer Mounted Arrow Panel
- Protective Vehicle
- Work Space

A protective vehicle **shall** be used while work is in progress. The protective vehicle **should** be equipped with a TMA and flashing arrow panel and positioned at least 150 ft. in advance of the work space. The protective vehicle **may** be eliminated if the roadway is posted at 45 mph or below, the work vehicle is positioned in advance of the work space, and the work vehicle uses activated rotating lights or strobe lights.

The closure of the adjacent interior lane in the opposing direction **may** not be necessary, depending upon the activity being performed and the work space needed for the operation.

If physical barriers exist (i.e. guardrail, guard cable, concrete barrier or raised median) between opposing directions of traffic, refer to **616.23.3.12 (TA-12) Lane Closure on Left or Right Lane on Divided Highways.**

For short duration operations, signs and channelizers **may** be reduced or eliminated.

For mobile operations where workers are on foot and move with the operation, channelizers **may** be reduced or eliminated.

Additional warning signs **shall** be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs **may** be erected at other intersections within the work zone.

