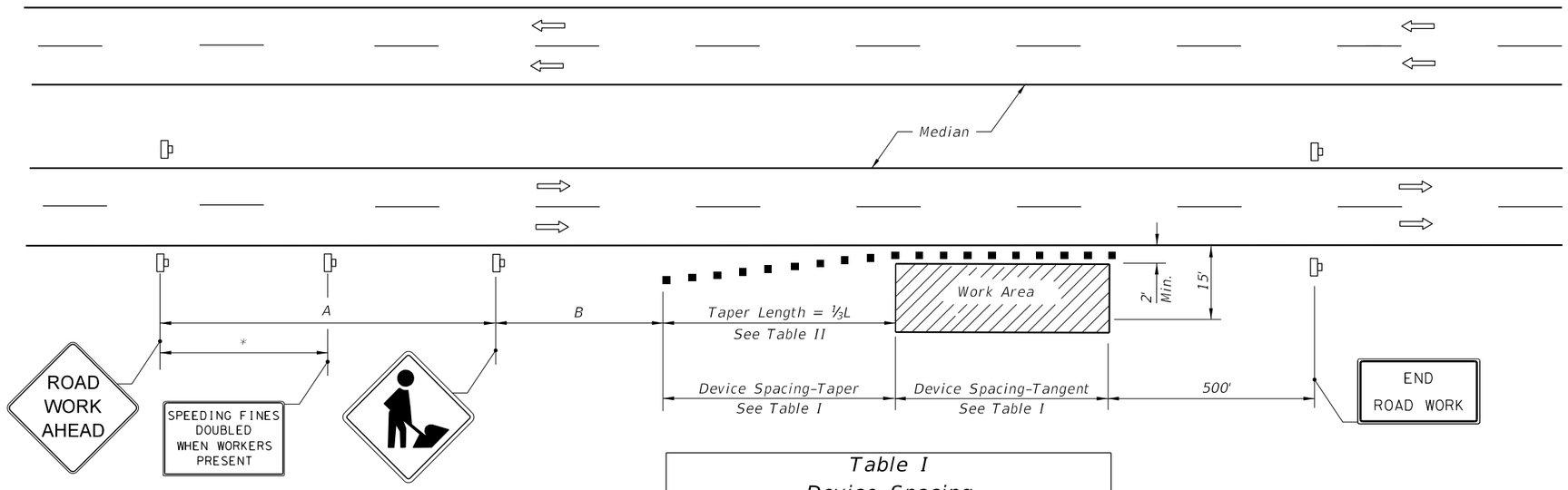


| DISTANCE BETWEEN SIGNS | | |
|---|---|---|
| Speed | Spacing (ft.) | |
| | A | B |
| 40 mph or less | 200 | 200 |
| 45 mph | 350 | 350 |
| 50 mph or greater | 500 | 500 |

* 250' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

| Table I<br>Device Spacing | | | | |
|---|---|---|---|---|
| Speed (mph) | Max. Distance Between Devices (ft.) | | | |
| | Cones or Tubular Markers | | Type I or Type II Barricades or Vertical Panels or Drums | |
| | Taper | Tangent | Taper | Tangent |
| 25 | 25 | 50 | 25 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 |
| 50 to 70 | 25 | 50 | 50 | 100 |

| Table II<br>Taper Length - Shoulder | | | | |
|---|---|---|---|---|
| Speed (mph) | ⅓L (ft.) | | | Notes |
| | 8' Shldr. | 10' Shldr. | 12' Shldr. | |
| 25 | 28 | 35 | 42 | $L=\frac{WS^2}{60}$ |
| 30 | 40 | 50 | 60 | |
| 35 | 55 | 68 | 82 | |
| 40 | 72 | 90 | 107 | |
| 45 | 120 | 150 | 180 | L=WS |
| 50 | 133 | 167 | 200 | |
| 55 | 147 | 183 | 220 | |
| 60 | 160 | 200 | 240 | |
| 65 | 173 | 217 | 260 | |
| 70 | 187 | 233 | 280 | |

8' minimum shoulder width.

⅓L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

## SYMBOLS

Work Area

Channelizing Device (See Index No. 600)

Work Zone Sign

Lane Identification + Direction of Traffic

## GENERAL NOTES

1. When a high volume of work vehicles are entering and leaving the Work Area at speeds slower than 10 MPH below the posted speed, place an MOT-5-06 sign in the ROAD WORK AHEAD sign location and shift the ROAD WORK AHEAD sign upstream 500 ft.
2. This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
3. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
4. WORKERS signs to be removed or fully covered when no work is being performed.
5. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
6. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
7. For general TCZ requirements and additional information, refer to Index No. 600.

## DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a. Work operations are 60 minutes or less.
   b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

## CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

6/16/2015 10:50:21 AM

| LAST REVISION | REVISION | DESCRIPTION: | | INDEX NO. | SHEET NO. |
|---|---|---|---|---|---|
| 07/01/15 | | | 2016 DESIGN STANDARDS | 612 | 1 of 1 |

# MULTILANE, WORK ON SHOULDER