

AMENDMENTS TO PART VI OF THE MUTCD (2009 EDITION)

NOTE: Revised Standards TC-1 through TC-8 amend Part VI of the 2009 Edition of the MUTCD by superseding or supplementing certain Sections. They shall be used in conjunction with the MUTCD and the Specifications for work zone traffic control on all projects.

1. Section 6C.04, Table 6C-1 and Section 6H-01, Table 6H-3. "Urban (low speed)" shall be defined as those roadways with regulatory speed limits of 30 mph or less; "Urban (high speed)" shall be defined as those roadways with regulatory speed limits
2. Section 6F.03, Sign Placement. Add the following paragraph as a "Standard" heading:
01a Actual placement of temporary traffic control signs shall be carefully considered to avoid obstructing existing signs or allowing existing signs, vegetation or other physical features to obstruct or limit visibility to temporary traffic control signs. Temporary traffic control signs shall also be placed at locations that avoid overwhelming motorists with information when combined with existing signs.
3. Section 6F.17 Positioning of Advanced Warning Signs. Add the following sentence as "Guidance" and "Option", respectively after sentence 07:
 Guidance:
 08 *When multiple operations are occurring in the same area, duplication of the advance warning signs, e.g. ROAD WORK AHEAD, ROAD WORK ½ MILE, etc., should be avoided.*
 Option:
 09 In cases where room for advance warning signage is severely limited, some of the general advanced warning signs (e.g. ROAD WORK AHEAD) may be eliminated in order to provide adequate space for driver to see and comprehend the warning signs requiring driver action, e.g. LANE ENDS MERGE LEFT, FLAGGER AHEAD, etc.
4. Section 6F.64, Cones. Add the following to the "Standard":
01a Cones shall not be used at night as the primary channelization device, except during work hours.
5. Section 6F.65, Tubular Markers. Replace paragraphs 01 and 02 of the "Standard" section with the following:
01 Tubular markers shall be predominately orange and shall not be less than 42 inches high and 3 inches wide when facing road users. They shall be made of material that can be struck without causing damage to the impacting vehicle. Refer to MUTCD 6F-65 Paragrah 3 for delineation color and type.
6. Section 6F.67, Drums. Add the following sentences after Sentence number 01:
Standard:
01a Drums shall be the primary delineation device on divided highways for all tapers and tangents.
 Option:
 01b Cones or tubular markers may be used, only in the tangent sections of the lane closure, when inadequate width, geometric constraints or the duration of the operation (short-duration or mobile, see 6G.02 for Work Duration definitions) necessitates the use of a narrower or more easily moved channelizing device.
7. Section 6F.78 – Temporary Markings. Add to the "Standard" the follow sentences:
05a All temporary markings on divided highways shall be 4-inch removable tape or paint conforming to MUTCD Chapter 3, Section 3A.
05b All temporary markings shall be offset 1-foot from the final striping location.
05c All temporary white broken-line pavement markings for traffic moving in the same direction shall be retroreflectorized paint or tape. Temporary paint or tape markings shall have a cycle length of 40 feet long with minimum 4-foot long skip and 36-foot long gap. Temporary tape shall be removed prior to any overlays and after permanent pavement markings have been applied.
05d Stop lines shall be installed during temporary conditions and shall be retroreflectorized paint or tape.
 Replace "Guidance" paragraph 03 with:
 03 *Edge lines, channelizing lines, lane reduction transitions, gore markings, and non-longitudinal lines (e.g., railroad crossings, crosswalks, words, symbols, etc.) are usually not required for temporary situations. Their use should be evaluated on a project by project basis based on field conditions, relative traffic speeds and volumes, and the use of other traffic control devices. When used, temporary markings for these types of longitudinal and non-longitudinal lines shall be retroreflectorized paint or tape and conform to MUTCD Part 3 Chapters 3A and 3B.*
8. Section 6F.85 – Temporary Traffic Barriers. Add the following to the "Standard" paragraph 06:
06a Temporary end treatments in the form of sand barrels and water filled arrays shall not be used from November 1st through April 15th unless they are greater than ten feet from the travelway (measured to the face) or specifically approved in writing by the Engineer. If approved by the Engineer for winter use, the sand or water shall be treated in accordance with the manufacturer's recommendations to prevent freezing.
06b Impact attenuators shall be marked with a Type 3 Object Marker per Section 2C.63 Object Marker Design and Placement Height paragraph 02.
9. Section 6G.05 – Work Affecting Pedestrian and Bicycle Facilities. Add the following to the "Support" paragraph 01:
 01a R4-11 (Bike May Use Full Lane) sign should be used when the clear width of a single lane and shoulder is less than 14', except when the existing lane and shoulder in the general vicinity of the work provides less than 14' clear. This sign is optional where operational controls are used, and during mobile, short duration, and short term stationary work durations as defined by Section 6G.02. This sign shall not be used when the speed limit is over 40 mph.
10. Section 6H.01, Typical Applications. Add the following paragraph to the Option heading:
 08 Many diagrams show ROAD WORK (W20-1), ROAD WORK NEXT XX MILES (G20-1), and END ROAD WORK (G20-2a) signs being used for the activities. These signs may be omitted if the activity is being performed within the limits of a larger project and the Advance Warning and/or Termination Signs for the larger project provide reasonable warning to the motorist for the activity.
11. Section 6H.01, Figure 6H-14. The diagram for the unsignalized crossing of a Haul Road shows interim tape and a NO PASSING ZONE (W-14-3) sign to deter passing maneuvers. In lieu of interim tape, cones may be placed along the centerline, using a maximum spacing of 40-feet.

 In both diagrams, add a TRUCK CROSSING (W8-6) sign at a distance "B" in advance of the DO NOT PASS (R4-1) sign. Show the ROAD WORK AHEAD (W20-1a) sign at a distance "C" in advance of the TRUCK CROSSING sign. (See Table 6H-3 for distance
12. Section 6H.01, Figure 6H-36. Make the following revisions:
 - a. Use REVERSE CURVE (W1-4 series) signs which show side-by-side arrows, one arrow for each open lane, at each location that the sign is shown.

WORK ZONE TRAFFIC CONTROL

**AMENDMENTS TO PART VI
MUTCD (2009)**

**STANDARD
NO. TC-1**

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STANDARD PLANS



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