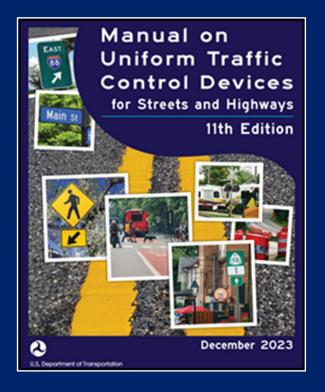
MUTCD UPDATE... WHAT DOES THIS MEAN FOR MUNICIPALITIES?



LTAP VIRTUAL DROP-IN SESSION APRIL 4, 2024



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This session is being recorded.

By participating in this session, you are consenting to the recording, retention, and use of this session.

Additionally, as a reminder by asking a question verbally you are also consenting to the recording, retention, and use of your statements.



INSTRUCTOR INFORMATION

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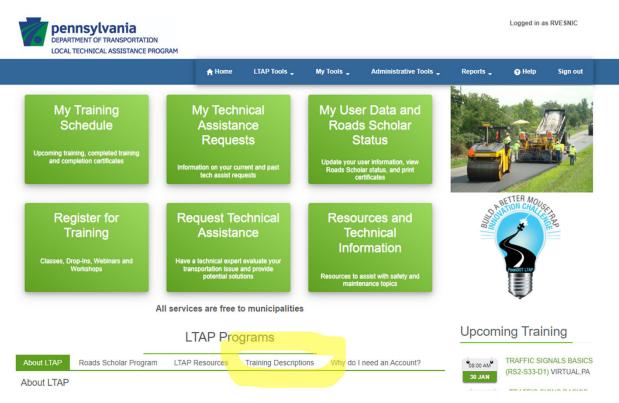


www.gis.penndot.pa.gov/ltap

The LTAP website has course listings, newsletters, tech sheets, webinars, and drop-in announcements.

Electronic copies of the course workbook and handouts are under each training description. You may download them 24/7.

https://gis.penndot.pa.gov/ltap/





Part 1: PennDOT Guidance for the Adoption of the 2023 MUTCD

MILESTONES

- Dec. 14, 2020: Notice of Proposed Amendments posted
- May 15, 2021: Public comment docket closed
- Dec. 19, 2023: Final Rule published
- Jan. 18, 2024: Final Rule effective
- Jan. 18, 2026: Deadline for agency conformance
- Jan. 2028, 2032... MUTCD v12, v13 to be issued

Source: https://mutcd.fhwa.dot.gov/

FEDERAL CONFORMANCE

23 CFR § 655.603 *Standards: "...* Where State...Supplements are required, they shall be in substantial conformance with the national MUTCD. Substantial conformance means that the...Supplement shall conform as a minimum to the Standard statements included in the national MUTCD."

MUTCD v11 Chapter 1.C.01 Definitions: "Standard—a statement of required, mandatory, or specifically prohibitive practice regarding a traffic control device. In limited, location-specific cases, the results of a documented engineering study (see Section 1D.03) might indicate a deviation from one or more requirements of a Standard provision to be appropriate. All Standard statements are labeled, and the text appears in bold type. The verb "shall" is typically used. The verbs "should" and "may" are not used in Standard statements. Standard statements are sometimes modified by Option statements.

PA ADOPTION

67 Pa Code § 212.2 Adoption of Federal standards

(a) General provisions. "...Department hereby adopts the MUTCD, as published by the Federal Highway Administration. The MUTCD is adopted in its totality except where this chapter clearly indicates that it is not being adopted, or that additional warrants or criteria are being provided."

(b) *Modification of Federal statutes, regulations or provisions.* "...if the MUTCD is amended or modified by the Federal Highway Administration, the amendment will take effect on the effective date specified by the Federal Highway Administration unless the Department publishes a notice in the *Pennsylvania Bulletin* stating that the amendment or modification will not apply."

NOTE: PA Bulletin notice was posted Jan. 6, 2024 (Click for link)

MUNICIPAL APPLICABILITY

67 PA Code § 212.4 Application

(a) General. This chapter applies to the approval, location, installation, revision, operation, maintenance and removal of all traffic signs, signals, markings and other traffic-control devices on all streets and highways in this Commonwealth.

67 PA Code § 212.5 Installation and maintenance responsibilities

- (a) Authority to erect traffic-control devices
- (b) Traffic-control devices on State-designated highways
- (c) Traffic-control devices on local highways



ACTION PLAN

Steering Committee

• HSTO and PA Turnpike managers + DTE delegate

Nine (9) Technical Work Groups – per MUTCD Chapter

- HSTO managers + the following as appropriate:
 - ➤PA Turnpike staff
 - Subject matter experts; e.g. Bike/Ped Coordinator
 LTAP
 - ≻Major City Engineers

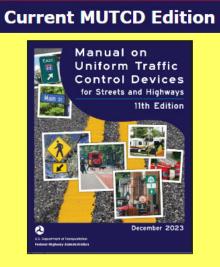


STEERING COMMITTEE ROLES

- Ensure compliance with federal requirements
- Assign subject matter experts to champion policy changes
- Provide technical assistance to the subject matter experts
- Review and track changes to pubs, standards, and forms

Part 2: MUTCD Key Updates

11th Edition of the MUTCD, December 2023



The PDF of the 11th Edition of the MUTCD, dated December 2023, is the **current edition** of the official FHWA publication. The current edition of the MUTCD is the **11th Edition**, dated December 2023. The official version of the 11th Edition of the MUTCD is the PDF version.

Changes from the 2009 Edition

To assist agencies in understanding the new provisions, supplementary documents detailing new content of the 11th Edition of the MUTCD (December 2023), and how the new edition differs from its predecessor, the 2009 Edition with Revisions 1, 2, & 3 incorporated (August 2022), are available in the Rulemaking Docket and linked below.

- 2009 MUTCD Text Redline with 11th Edition Changes
- MUTCD 11th Edition Supplemental Summary of Dispositions for Final Rule Changes

Viewing the MUTCD

The 11th Edition of the MUTCD is available **only in PDF format** on this Web site. PDF formatted parts and chapters are accessible to individuals with disabilities, per <u>Section</u> <u>508 of the Rehabilitation Act</u>. Starting with the 11th Edition of the MUTCD, FHWA no

onger provides the MUTCD in a companion HTML format.

CHANGES BETWEEN 2009 & 2023

<u>Volume:</u> Increased from 864 to 1161 pages

Chapters:GeneralSignsMarkingsTraffic SignalsIntegrated elsewhere in MUTCDLow Volume Roads → Integrated elsewhere in MUTCDAutomated Vehicles ← New ChapterTemporary Traffic ControlSchool AreasRR Light Rail & GradeBicycle Facilities

Key Updates:

- Compliance Dates
- Traffic Signs
 - Stop Signs
 - Speed Limits
 - Curve Warning Signs
- Pavement Markings

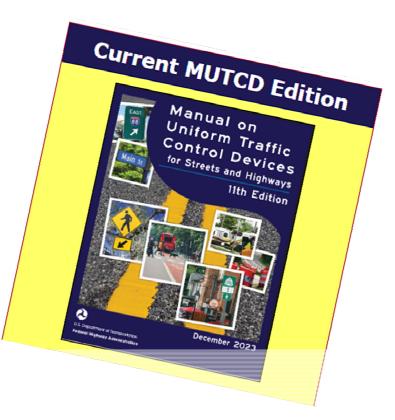




Table 1B-1. Target Compliance Dates Established by the FHWA

MUTCD Section(s)	Subject Area	Specific Provision	Compliance Date		
2B.64	Weight Limit Signs	Paragraph 14 - requirement for additional Weight Limit sign with the advisory distance or directional legend in advance of applicable section of highway or structure	5 years from the effective date of this edition of the MUTCD		
2C.25	Low Clearance Signs (W12-2)	Paragraph 1 - Required posting of the Low Clearance Advance (W12-2) sign in advance of the structure	5 years from the effective date of this edition of the MUTCD		
2C.25	Low Clearance Signs (W12-2a, W12-2b)	Paragraph 8 - Recommended posting of Low Clearance Overhead (W12-2a or 12-2b) signs on an arch or other structure under which the clearance varies greatly	5 years from the effective date of this edition of the MUTCD		

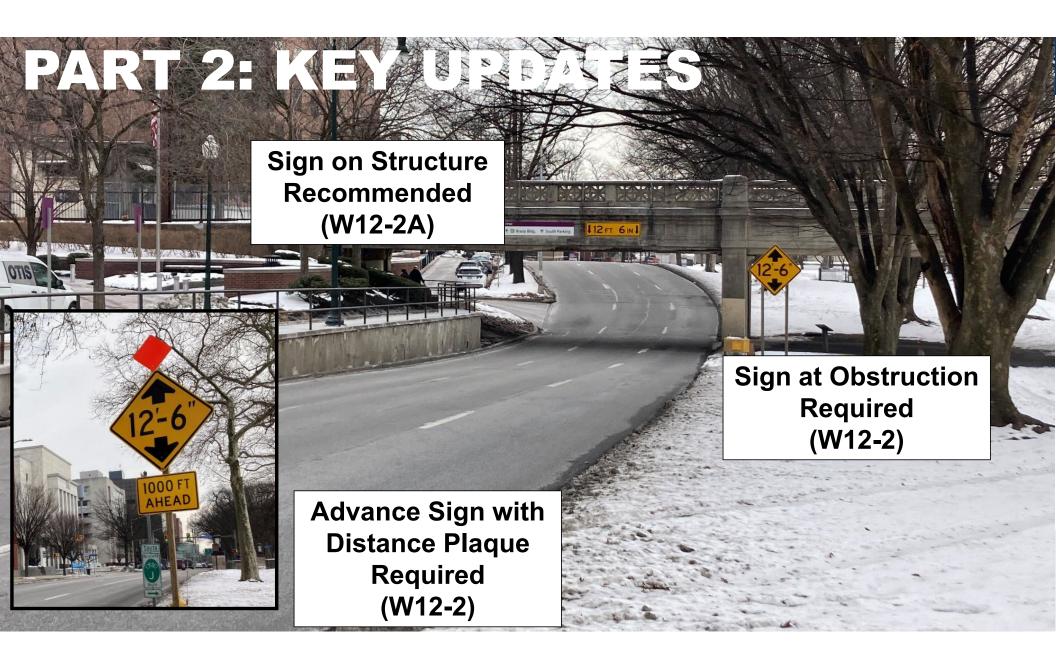






W12-2b





GENERAL COMPLIANCE

A non-compliant traffic control device that is being replaced or refurbished because it is damaged, missing, or no longer serviceable (see definition in MUTCD Section 1C.02) for any reason shall be replaced with a compliant device, except as provided for in Paragraph 13 of this Section.

Option:

A non-compliant traffic control device may be replaced in kind when engineering judgment indicates it is more appropriate because:

- One compliant device in the midst of a series of adjacent non-compliant devices would be confusing to road users, and/or
- The schedule for replacement of the whole series of non-compliant devices will result in achieving timely compliance with the MUTCD.

Source: MUTCD v11 Chapter 1.B.03



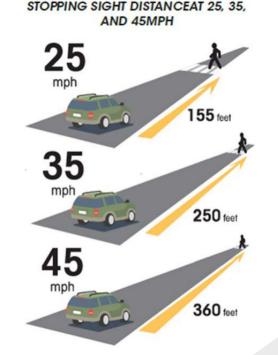


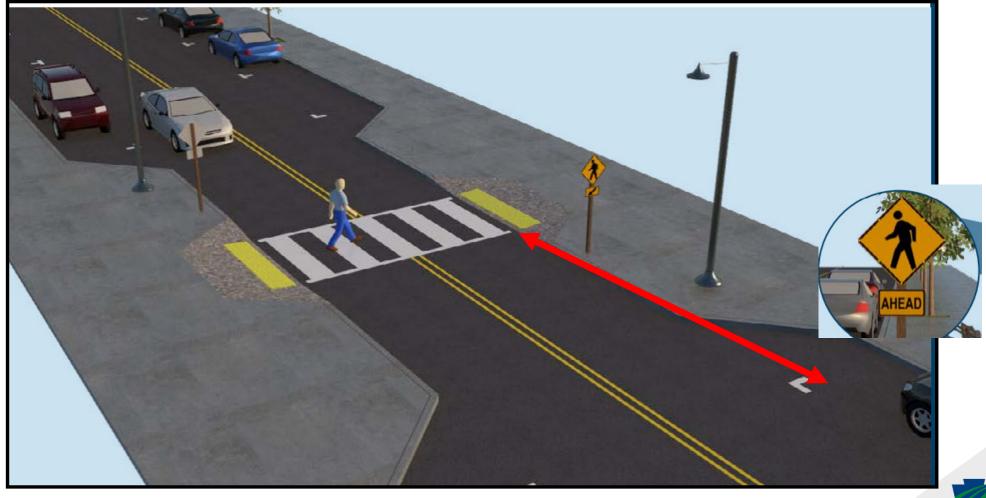
Warning Signs (Section 2C.04)

 Increases distance for advance placement of warning signs for a stop condition

Posted or 85th- Percentile Speed	Advance Placement Distance ¹											
	Condition A: Speed reduction	Condition B: Deceleration to the listed advisory speed (mph) for the condition										
	and lane changing in heavy traffic ²	0 ³	10 ⁴	20 ⁴	30 ⁴	40 ⁴	50 ⁴	60 ⁴	70 ⁴	804		
20 mph	225 ft	115 ft	N/A ⁵	-	-	-	-	-	-	-		
25 mph	325 ft	155 ft	N/A ⁵	N/A ⁵	_	-	-	-	-	-		
30 mph	460 ft	200 ft	N/A ⁵	N/A ⁵	-	-	-	-	-	-		
35 mph	565 ft	250 ft	N/A ⁵	N/A ⁵	N/A ⁵	-	-	-	-	-		
40 mph	670 ft	305 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	-	-	-	-	-		
45 mph	775 ft	360 ft	125 ft	100 ft ⁶	100 ft ⁶	N/A ⁵	-	-	-	-		
50 mph	885 ft	425 ft	200 ft	175 ft	125 ft	100 ft ⁶	-	-	-	-		
55 mph	990 ft	495 ft	275 ft	225 ft	200 ft	125 ft	N/A5	-	-	-		
60 mph	1,100 ft	570 ft	350 ft	325 ft	275 ft	200 ft	100 ft ⁶	-	-	-		
65 mph	1,200 ft	645 ft	450 ft	400 ft	350 ft	275 ft	200 ft	100 ft ⁶	-	-		
70 mph	1,250 ft	730 ft	525 ft	500 ft	450 ft	375 ft	275 ft	150 ft	-	-		
75 mph	1,350 ft	820 ft	625 ft	600 ft	550 ft	475 ft	375 ft	250 ft	100 ft ⁶	-		
80 mph	1,475 ft	910 ft	725 ft	700 ft	625 ft	550 ft	450 ft	350 ft	200 ft	-		
85 mph	1,600 ft	1,010 ft	825 ft	800 ft	750 ft	675 ft	575 ft	450 ft	300 ft	150 ft		

Table 2C-3. Guidelines for Advance Placement of Warning Signs





Section 3A.05 <u>Maintaining Minimum Pavement Marking Retroreflectivity</u> Standard:

PART 2: KEY UPDATES

Except as provided in Paragraph 5 of this Section, a method designed to maintain retroreflectivity at or above 50 mcd/m²/lx under dry conditions shall be used for longitudinal markings on roadways with speed limits of 35 mph or greater.



- Exception
 - -Where roadway illumination is provided
 - -Roads with less than 6,000 vehicles per day

th posted s

 Curb markings, parking space markings, symbols/legends crosswalks and other transverse markings excluded

nd greate

Most local roads are excluded

Center lines, edge lines, lane lines

Width and colors are the same



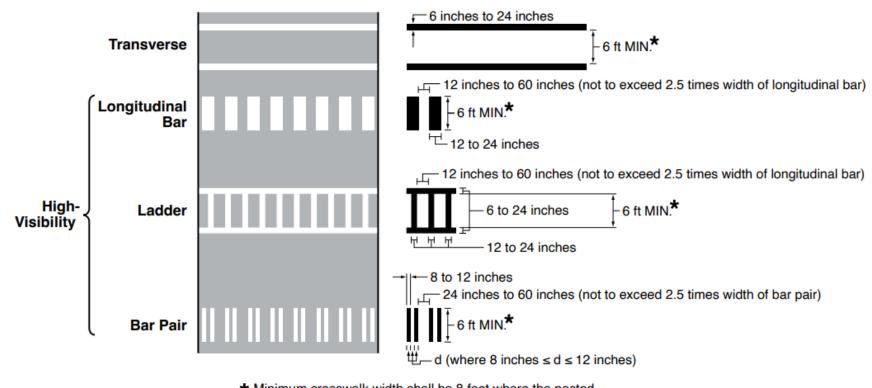
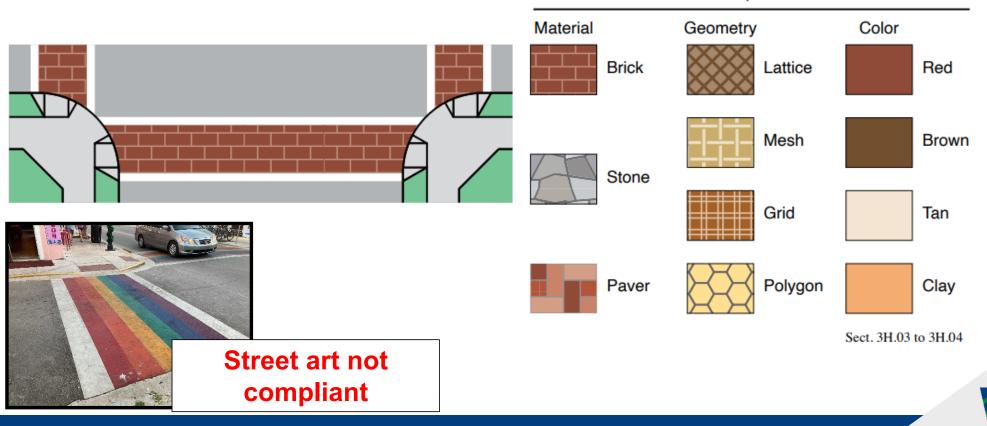


Figure 3C-1. Crosswalk Markings

Minimum crosswalk width shall be 8 feet where the posted speed limit is 40 mph or greater at a non-intersection crosswalk.

Figure 3H-1. Aesthetic Treatments for Transverse Crosswalks



Examples of:

Colored Pavement Markings

 Formally adopts green (bikes), red (buses), and purp. (toll lanes)



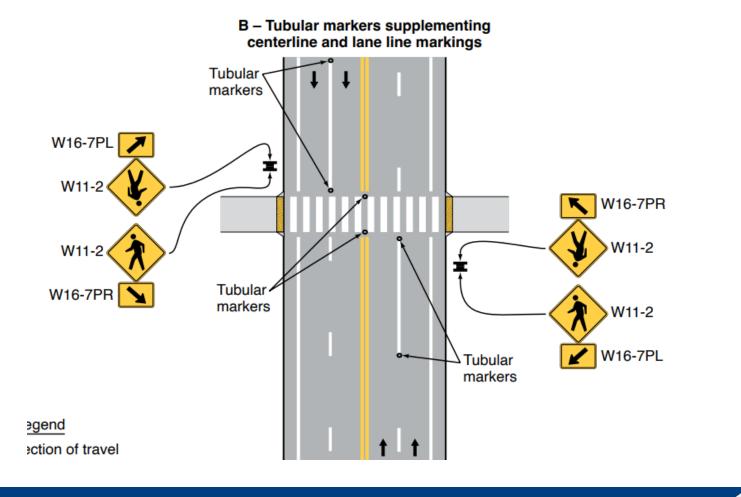
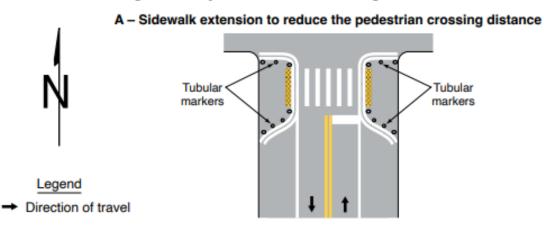
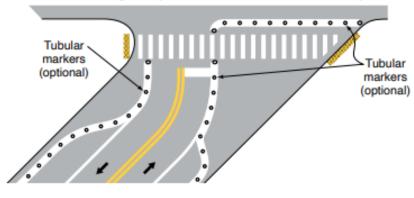


Figure 3J-6. Examples of Sidewalk Extensions Designated by Pavement Markings and Channelization



B - Channelizing for speed control and altered travel paths



Be aware of any additional information and decisions from PenDOT
Use the existing AUTCD/PennDOT star-cards to any new traffic control device applications until official adoption of the 2023 MUTCD
Any questions, ask! E HIGH ST

STOP

UMMAYE

CONTACT LTAP

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