

National MUTCD
&
New York State Supplement:
“An Overview and a Look to 2009”

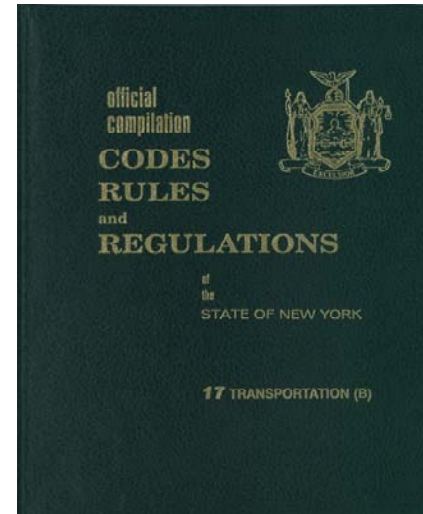
David Woodin, PE, PTOE
New York State DOT
Office of Traffic Safety & Mobility

Cornell Local Roads Highway Superintendents Conference
June 3, 2008

MANUAL CHANGES

17 NYCRR Chapter V (“NYS MUTCD”)

Previous Guidance

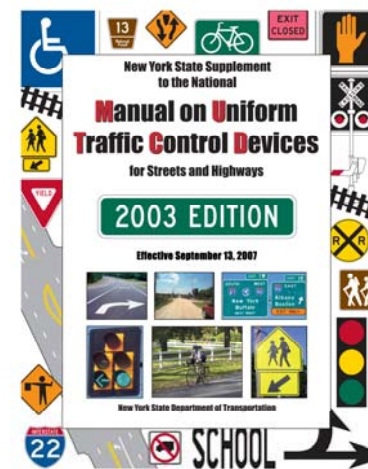
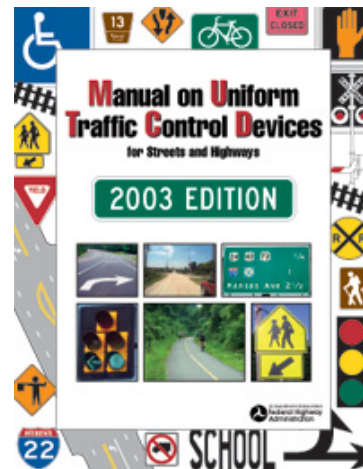


National MUTCD



NYS Supplement

Guidance as of
September 13, 2007



NATIONAL MUTCD & SUPPLEMENT CITATIONS

Long Forms

National Manual on Uniform Traffic Control Devices for Streets and Highways 2003 Edition

New York State Supplement to the National Manual on Uniform Traffic Control Devices for Streets and Highways – 2003 Edition

Short Forms

National MUTCD

New York State Supplement or NYS Supplement

FINDING NATIONAL MUTCD & SUPPLEMENT

ONLINE

National MUTCD - <http://mutcd.fhwa.dot.gov/>

NYS Supplement -

<https://www.nysdot.gov/portal/page/portal/divisions/operating/oom/transportation-systems/traffic-operations-section/mutcd>

HARD COPY

National MUTCD - Purchase from ATSSA, ITE, or AASHTO

NYS Supplement – Purchase from West Group (1-800-344-5008 or <http://west.thomson.com/> - refer to document as “Transportation Title 17B”)

Web Site Improvements




- Gradually updating the MUTCD web page to offer not only the latest version of the NMUTCD and the State Supplement, but to also provide useful tools
- <https://www.nysdot.gov/portal/page/portal/index>

Current Snapshot of the MUTCD Web Page


The following documents are available for downloading:

- ✦ [National MUTCD \(2003 Edition\)](#) 
- ✦ [MUTCD Presentation](#)  **(posted 2/8/08)**



New York State Supplement

- ✦ [New York State Supplement including Revision #1 - Full Version](#)  **(posted 4/4/08)**
- ✦ [New York State Supplement including Revision #1 - Parts 1 - 10](#)  **(posted 4/4/08)**
- ✦ [New York State Supplement including Revision #1 - Appendices 1 & 2](#)  **(posted 4/4/08)**






New York State Supplement (Previous Editions)

- ✦ [New York State Supplement - Original Version](#) 

New York State Supplement (Revisions)

- ✦ [New York State Supplement - Revision #1](#) 
- ✦ [List of Changes in Regulation](#) 

Helpful Tools

- ✦ [List of Significant Changes Due to Adoption of National MUTCD + Supplement](#) 
- ✦ [Sign Designation Conversion Tables](#) 
- ✦ [New York State Traffic Control Statutory Mandates](#) 
- ✦ [New York State Statutes Relating to Traffic Control](#) 
- ✦ [Frequently Asked Questions](#) 

NYS DOT MUTCD WEBSITE – List of Major Changes

https://www.nysdot.gov/portal/page/portal/divisions/operating/oom/transportation-systems/reposi - Microsoft Internet Explorer

File Edit View Insert Format Tools Data PDF Create! Go To Favorites Help

Back Forward Stop Refresh Home Search Favorites

Address https://www.nysdot.gov/portal/page/portal/divisions/operating/oom/transportation-systems/repository/Rmajorchanges-web.xls

	A	B	C	D	E	F
1						
2		Notes:				
3		1. This list does not contain every difference that exists between the current State MUTCD & the National MUTCD.				
4		2. The types of changes are: M=Mandate, G=Guidance, O=Option.				
5		3. The impact of each change refers to the likelihood that the change will impose a fiscal/resource burden on affected highway agencies. The impact types are characterized as either None (no burden), Positive (no burden + new positive option), or Negative (Major, Medium, Minor).				
6						
7						
8						
9						
10						
11						
12						
13		National MUTCD Section	Significant Changes Due to Adoption of National MUTCD & NYS Supplement	TYPE	Impact	
14		2A.06	Internet addresses cannot be used on signs.	M	None	
15		2A.06	Recommends Phone numbers with more than 4 characters not be shown on signs.	G	None	
16		2A.08	Allows LEDs to be used within the face and border of signs.	O	Positive	
17		2A.18	Minimum height for signs on freeways/expressways is 7 ft. (State MUTCD currently requires 6 ft.)	M	Major	
18		2A.18	Minimum height for overhead signs is 17 ft. (State MUTCD currently requires 15 ft.)	M	Major	
19		2A.21	Allows retroreflective material on sign posts.	O	Positive	
20		2B.04	R1-4 or R1-3 SHALL be used at all-way stop. (State MUTCD only says should.)	M	Minor	
21		2B.06/2B.10	DO NOT ENTER sign is allowed to be placed back-to-back with STOP & YIELD signs.	O	Positive	
22		2B.09	YIELD sign shall be used at the entrance to a roundabout.	M	Minor	
23		2B.10	YIELD signs shall be mounted on both sides of a multilane approach to roundabout when a splitter island exists on left side.	M	Minor	
24		2B.10	Recommends not mounting signs back-to-back with YIELD signs.	G	None	
25		2B.10	Recommends YIELD sign be installed after the crossing at roundabouts.	G	None	
26		2B.11	Requires use of YIELD HERE TO PEDS (R1-5) sign with unsignalized, marked, midblock crossings.	M	Minor	
27		2B.12	Changes design of In-Street Pedestrian Crossing sign.	M	Medium	
28		2B.13	Recommends that non-statutory speed limits be reviewed every five years on roadways that have undergone significant changes.	G	Medium	
29		2B.13	Allows installation of CMS that shows driver speed in conjunction with speed limit sign.	O	Positive	
30		2B.17	R2-6 FINES HIGHER sign design is different than State version.	M	Minor	
31		2B.19	Allows use of NO U-TURN/NO LEFT TURN (R3-18) sign.	O	Positive	
32		2B.26	Requires CMS used as regulatory signs to use similar letters and format.	M	Medium	
33		2B.26	Establishes requirements and guidance for preferential only lane signing.	M/G	Medium	
34		2B.37	Recommends that median widths be measured at intersection itself.	G	Minor	
35		Fig 2B-8	National sizes for R4-9 STAY IN LANE smaller than State sizes.	G	None	
36		2B.36	National sizes for R5-2 NO TRUCKS smaller than State sizes.	G	None	
37		2B.36	National sizes for R5-6 NO BICYCLES smaller than State sizes.	G	None	
38		2B.37	National R6-1 ONE WAY signs for multilane conventional highways/expressways/parkways larger than State.	G	Medium	
39		2B.37	National R6-2 ONE WAY signs larger than State sizes.	G	Medium	
40		2B.37	Different posting locations for ONE WAY signs.	M	Major	
41		2B.38	National R6-3 DIVIDED HIGHWAY signs larger than State sizes.	G	Medium	
42		2B.40	National R7-8a VAN ACCESSIBLE plaque larger than State size.	G	Medium	
43		2B.40	R7-8b VAN ACCESSIBLE plaque different color than State.	M	Medium	

Sheet1

NYSDOT MUTCD WEBSITE – Sign Designation Conversion Tables

Sign Code Conversion Sheet - Regulatory Signs				
NYS - Sign Code	NAT - Sign Code	Sign Name	MUTCD/Supplement Section	
R1-1	R1-1	STOP	2B.04	
R1-2	R1-2	YIELD	2B.08	
R1-3	R1-4	ALL WAY	2B.04	
R2-1	R2-1	SPEED LIMIT	2B.13	
R2-2	NYR2-2	STATE SPEED	2B.13	
R2-3	NYR2-3	AREA SPEED	2B.13	
R2-4	NYR2-4	CITY SPEED	2B.13	
R2-5	NYR2-5	VILLAGE SPEED	2B.13	
R2-6	NYR2-6	TOWN SPEED	2B.13	
R2-7	NYR2-7	SCHOOL SPEED LIMIT \times WHEN FLASHING	7B.11	
R2-8	NYR2-8		7B.11	
R2-9	R2-4	MIN SPEED LIMIT	2B.16	
R2-10	V3-5	SPEED ZONE AHEAD	2C.30	
R2-11	NYR2-11	END SPEED ZONE	2B.101	
R2-12	V3-5	REDUCED SPEED AHEAD	2C.30	
R3-1	R3-2	TURN PROHIBITION	2B.19	
R3-2	R3-1		2B.19	
R3-3	R3-4		2B.19	
R3-4	R3-3		2B.19	
R3-7	R10-11	NO TURN ON RED	2B.45	
R3-10	R6-1L	ONE WAY (L)	2B.37	
R3-11	R6-1R	ONE WAY (R)	2B.37	
R3-12	R6-2L	ONE WAY (L)	2B.37	
R3-13	R6-2R	ONE WAY (R)	2B.37	
R3-14	NYR3-14	ALL TRAFFIC	2B.102	
R3-15	R5-1	DO NOT ENTER	2B.34	
R3-16	R5-1a	WRONG WAY	2B.35	
R3-17	R6-3	DIVIDED HIGHWAY CROSSING	2B.38	
R3-18	R6-3a		2B.38	
R3-19	NYR3-19	LEFT TURN ONLY	2B.102	
R3-20	NYR3-20	RIGHT TURN ONLY	2B.102	
R3-21	NYR3-21	U-TURN ONLY	2B.21	
R3-22	R3-5L	MANDATORY MOVEMENT LANE CONTROL	2B.21	
R3-23	R3-5a		2B.21	
R3-24	R3-5R	RIGHT TURN ONLY	2B.21	
R3-25	R3-6L	OPTIONAL MOVEMENT LANE CONTROL	2B.22	
R3-26	R3-6R		2B.22	
R3-27	NYR3-27	LEFT/RIGHT	2B.22	
R3-28	NYR3-28	LEFT/RIGHT STRAIGHT	2B.22	
R3-31	R3-7L	LEFT LANE MUST TURN LEFT	2B.21	
R3-32	R3-7R	RIGHT LANE MUST TURN RIGHT	2B.21	

NYS DOT MUTCD WEBSITE – Sign Designation Conversion Tables

Disallowed National MUTCD Signs

D5-1	REST AREA 1 MILE	R7-5	ONE HOUR PARKING
D5-1a	REST AREA 2 MILES	R7-6	NO PARKING LOADING ZONE
D5-1b	REST AREA NEXT RIGHT	R7-7	NO PARKING BUS STOP
D5-2	REST AREA EXIT ARROW	R7-107	NO PARKING BUS STOP
D5-2a	REST AREA EXIT ARROW	R7-107a	NO PARKING BUS STOP
D5-2b	REST AREA Gore Arrow	R7-201	TOW AWAY ZONE text version
D5-3	PARKING AREA 1 MILE	R7-203	EMERGENCY SNOW ROUTE
D5-3c	PARKING AREA Advance	R8-1	NO PARKING ON PAVEMENT
D5-4	PARKING AREA EXIT ARROW	R8-2	NO PARKING EXCEPT SHOULDER
D5-5	ROADSIDE TABLE ARROW (text)	R8-3	NO PARKING
D5-5a	ROADSIDE TABLE ARROW	R8-3c	ON PAVEMENT
D5-5b	ROADSIDE PARK ARROW	R8-3d	ON BRIDGE
D5-5c	PICNIC AREA ARROW	R8-6	NO STOPPING EXCEPT SHOULDER
D5-5d	ROADSIDE PARK Advance	R9-3	NO PED CROSSING text version
D5-5e	ROADSIDE TABLE Advance	R9-4	NO HITCHHIKING text version
D5-6	NEXT REST AREA XX MILES	R10-2	CROSS ON PED SIGNAL text
D6-1	SCENIC AREA ARROW	R10-6a	STOP HERE ON RED curved arrow
D6-2	SCENIC OVERLOOK 2 MILES	R10-7	DO NOT BLOCK INTERSECTION
D6-3	SCENIC AREA ARROW	R10-11a	NO TURN ON RED text version
D9-4	Litter Container	R10-11b	NO TURN ON RED different shape
D9-13a	HOSPITAL plaque	R10-17a	RIGHT ON RED ARROW AFTER STOP
D9-13b	AMBULANCE STATION plaque	R10-20a	Days/Times plaque
D9-13c	EMERGENCY MEDICAL CARE plaque	RM-230	24-Hour pharmacy symbol
D9-14	POLICE panel	S4-1	Times plaque
D9-18a	General Service Sign text version	S4-2	WHEN CHILDREN ARE PRESENT
D9-18e	Advance General Service text version	S4-4	WHEN FLASHING
D9-20	24-Hour pharmacy symbol	S4-5a	SCHOOL ZONE AHEAD text version
D9-20a	24-HOUR Panel	S4-6	Days plaque
D12-3	CB Monitoring	S5-1	School speed limit
E1-3	Exit number plaque	W3-1a	STOP AHEAD text version
E1-5	Exit number plaque	W3-2a	YIELD AHEAD text version
E1-5a	Exit number plaque	W3-3a	SIGNAL AHEAD text version
E5-2	Exit number plaque	W3-5a	Speed Reduction text version
I-2	STATE LINE	W6-1a	DIVIDED HIGHWAY text version
R1-3	4-WAY plaque	W6-1b	DIVIDED ROAD text version
R1-5a	YIELD HERE TO PED text version	W6-2a	DIVIDED HIGHWAY ENDS text version
R1-6a	STOP FOR PED in-roadway	W6-2b	DIVIDED ROAD ENDS text version
R2-2	Truck speed limit	W7-1a	HILL text version
R2-3	Night speed limit	W7-1b	HILL with grade incorporated
R4-7a	KEEP RIGHT text version	W8-6	TRUCK CROSSING text version
R4-7b	KEEP RIGHT text with angle arrow	W9-2	LANE ENDS MERGE text version
R5-2a	NO TRUCKS text version	W12-2p	Low clearance

Signs Given Longer Compliance Times for Removal

State	National	Sign Description	Date
R3-7	R10-11a	NO TURN ON RED text version	09/13/17
R4-5	R4-7a	KEEP RIGHT text version	09/13/17
P3-8	R7-201	TOW AWAY ZONE text version	09/13/17
W2-15	W3-1a	STOP AHEAD text version	09/13/15
W2-16	W3-2a	YIELD AHEAD text version	09/13/15

Target Compliance Dates

- Controversial Issue: not enough resources nor time to do the job right
- Federal target dates are mandates that can not be ignored
- Working with FHWA to seek an alternative solution using the new retroreflectivity standards as the basis for sign upgrade
- New retro-reflectivity standards

WARNING SIGNS - *Location*

The distances in Table NY2C-4 assume that drivers do not begin to react to a warning sign until they actually reach the sign.

Advantages:

Uniformity of placement among similar signs.

Greater safety margin. (Any sign legibility in advance is extra distance to react.)

Easier for designers and field personnel to decide where to put signs.



WARNING SIGNS – *Determining Advisory Speeds*

State MUTCD

Use a ball bank reading of 10 degrees.

National MUTCD

Use the 85th-percentile speed, a ball bank indicator reading of 16 degrees, or the speed determined by an engineering study.

Proposed NYS Supplement Revision #1

Use AASHTO's *A Policy on Geometric Design of Streets and Highways*, 2004, with side friction factors from Supplement, or use ball bank readings from Supplement.

SPEED (mph)	SIDE FRICTION FACTOR (degrees)
≤ 24	0.24
25 - 34	0.21
35 - 49	0.18
≥ 50	0.15

SPEED (mph)	BALL BANK READING (degrees)
≤ 24	16
25 - 34	14
35 - 49	12
≥ 50	10

GUIDE SIGNS – *Street Name Signs*

State MUTCD

Guidance to use 6"-D letters for conventional highways.

Guidance to use 4"-D letters for two-lane conventional highways with low approach speeds or where larger signs cannot fit.

No guidance provided on larger sizes for multilane conventional highways.

National MUTCD

On conventional highways, the lettering on ground-mounted Street Name signs should be at least 6".

On conventional highways with speed limits of 25 mph or less, 4" letters may be used.

On multilane streets with speed limits greater than 40 mph, the lettering on ground-mounted Street Name signs should be at least 8".

Proposed NYS Supplement Revision #1

4" letters may be used on local roads with speed limits of 30 mph or less.

CHANGES – NOW & THE FUTURE

Revision # 1 to the NYS Supplement officially adopted on March 19, 2008.

Revision No. 2 to the 2003 National MUTCD adopted in December 2007. This revision included new retroreflectivity requirements.

MAJOR proposed changes to the National MUTCD released in January 2008. Comments will be accepted until July 31, 2008 (might be extended). Official adoption of changes expected in 2009 or 2010.

Change to National MUTCD will require MAJOR revisions to the NYS Supplement. Revision #2 to the NYS Supplement will coincide with adoption of revised National MUTCD (2009/2010).

2009 NMUTCD

- FHWA issued a NPA on January 2, 2008:
 - * Contains 513 proposed areas of change to the NMUTCD
 - * Public comment period ends July 31st
 - * NYSDOT currently preparing a “response to the docket”
 - * FHWA has provided a webinar re: the proposed changes

MUTCD application
on private property
that is “open to
public travel”

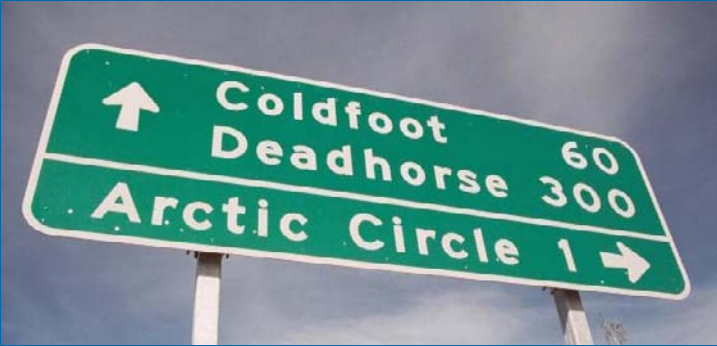


Size of sign lettering should be based on 1 inch of letter height per 30 feet of legibility

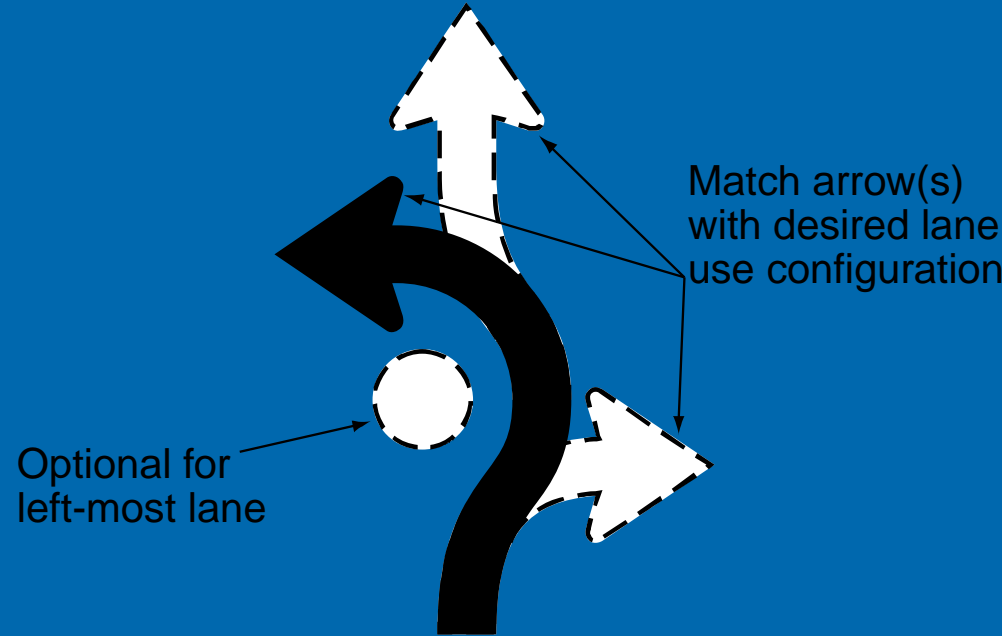
- Based on 20/40 vision
- Currently 1 inch per 40 feet



Option to use all upper-case letters for place names and street names is being deleted



New optional fish-hook arrows for use on lane-use control signs at roundabouts





Use of 2-WAY,
3-WAY, and
4-WAY plaques is
being deleted

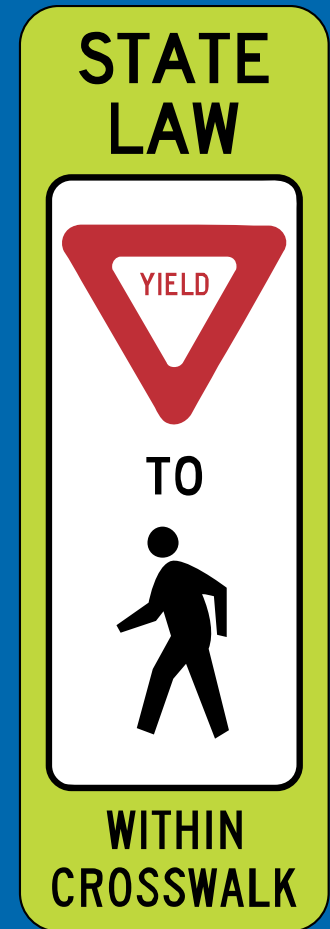
ALL-WAY plaque
remains as a
“shall” if all
approaches have
STOP sign

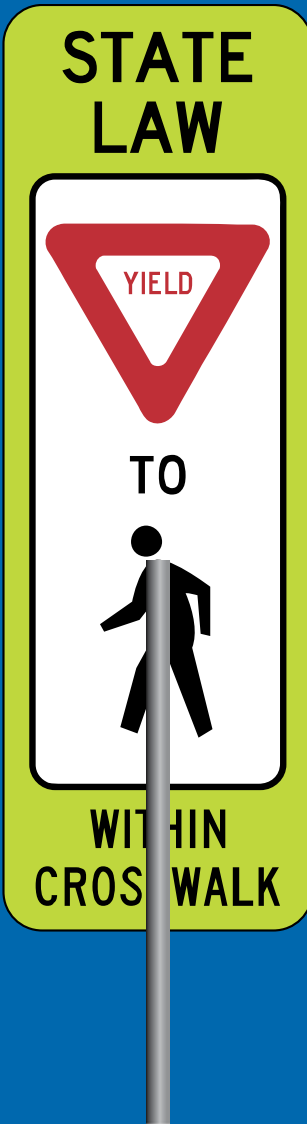
Variant of “Yield Here to Pedestrians” signs for State laws requiring full stop



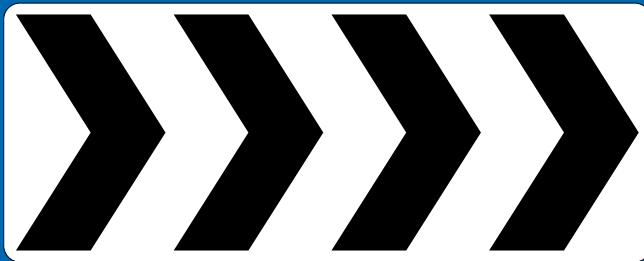
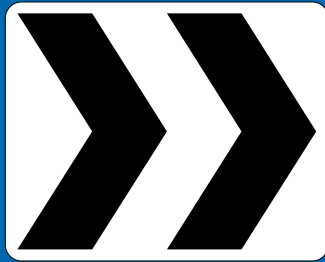
In-street pedestrian crossing signs:

- Conditions and criteria for use
- Placement locations
- Background may be fluorescent yellow or fluorescent yellow-green



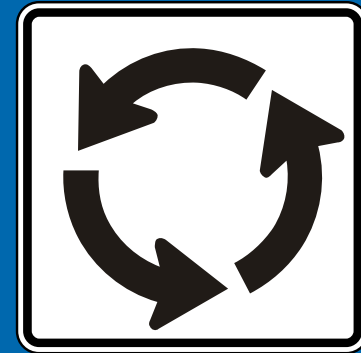


Supports for in-street pedestrian crossing signs must be designed to bend over and bounce back when struck



Roundabout Directional
Arrow signs
(on central island)

New regulatory
signs for use at
roundabouts



Roundabout Circulation
sign (with YIELD sign at
mini-roundabouts)

New symbolic
design for
Do Not Pass sign



~~COMMERCIAL
VEHICLES
EXCLUDED~~

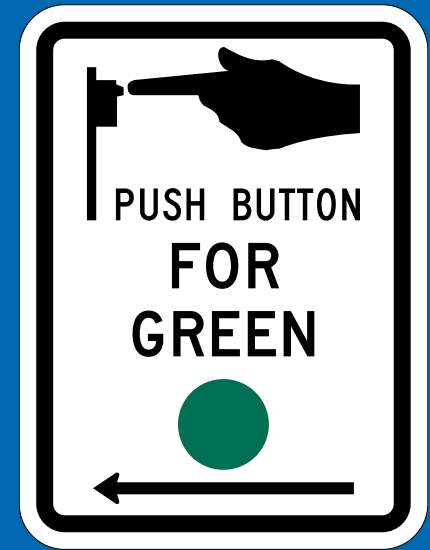
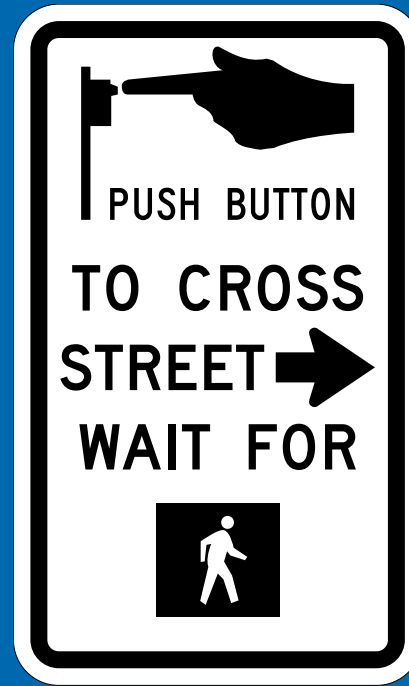
NO
COMMERCIAL
VEHICLES

~~PEDESTRIANS
BICYCLES
MOTOR-DRIVEN
CYCLES
PROHIBITED~~

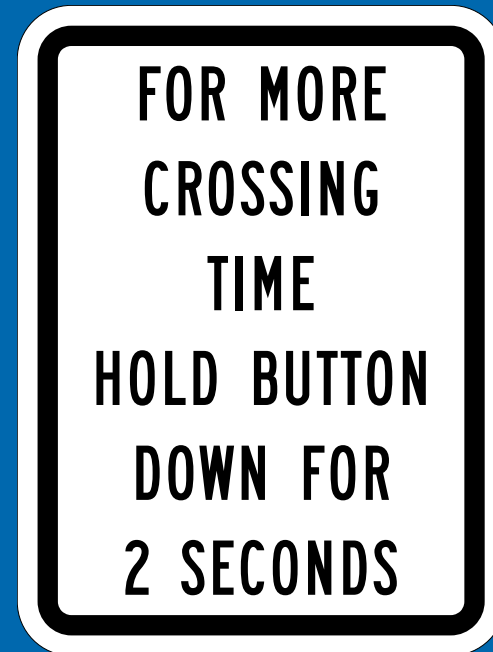
NO
PEDESTRIANS
BICYCLES
MOTOR-DRIVEN
CYCLES

“Excluded”
and
“prohibited”
changed to
“NO”

Symbol is
being added
to pedestrian
pushbutton
signs



New special purpose pedestrian pushbutton signs





Required for use with
pedestrian hybrid signals

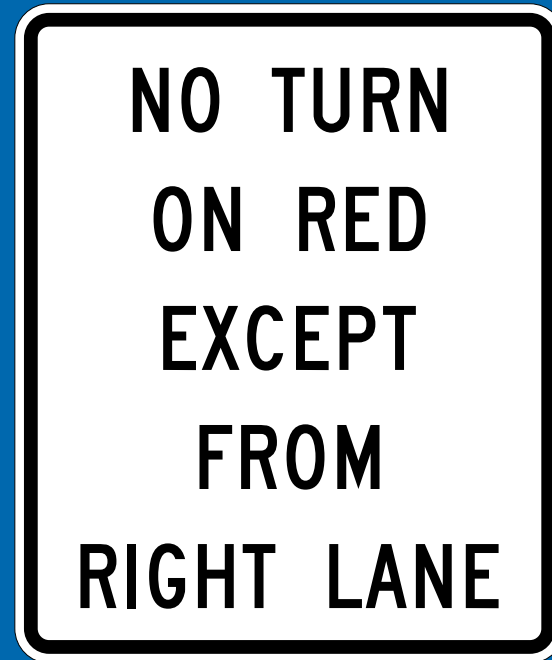


LEFT TURN
YIELD ON
FLASHING
RED ARROW
AFTER STOP

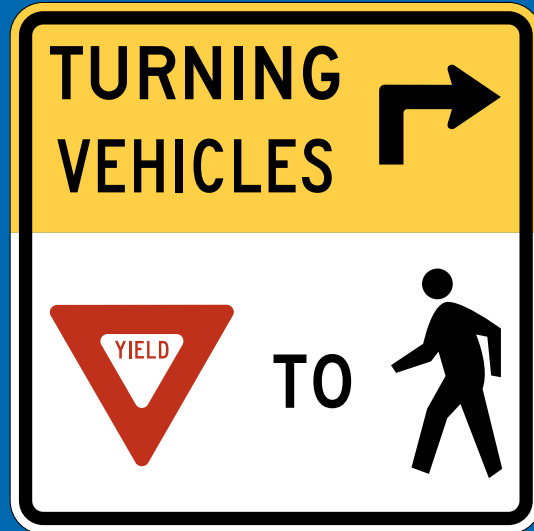
For optional use
with new flashing
red arrow signal
faces

New optional
sign to remind
RTOR drivers to
yield to
u-turners

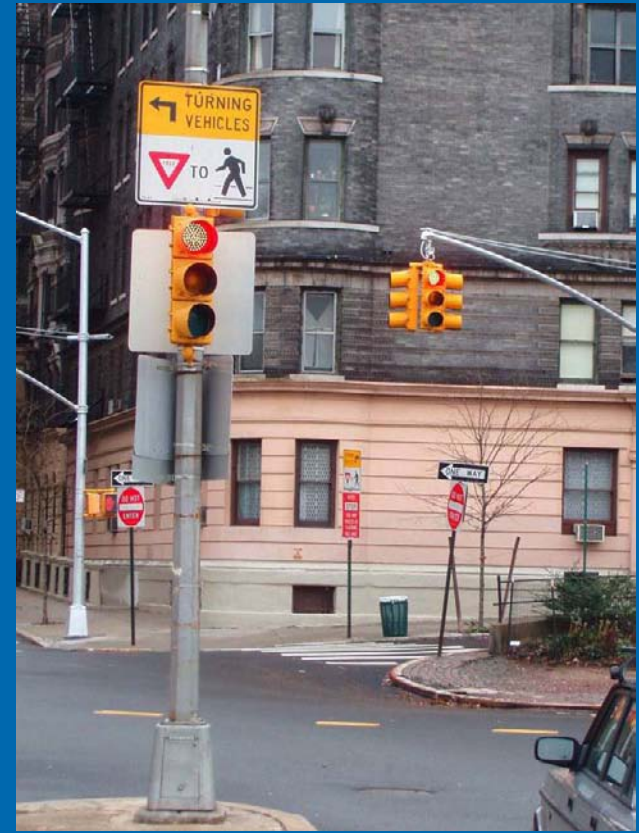




For approaches with more than one
right-turn lane



R10-15



New symbolic design
for the R10-15 sign

Fluorescent Yellow-Green color

Recommended for pedestrian, bike, and playground signs



Required for school signs



New sign and plaque for combined pedestrian/bicycle crossing



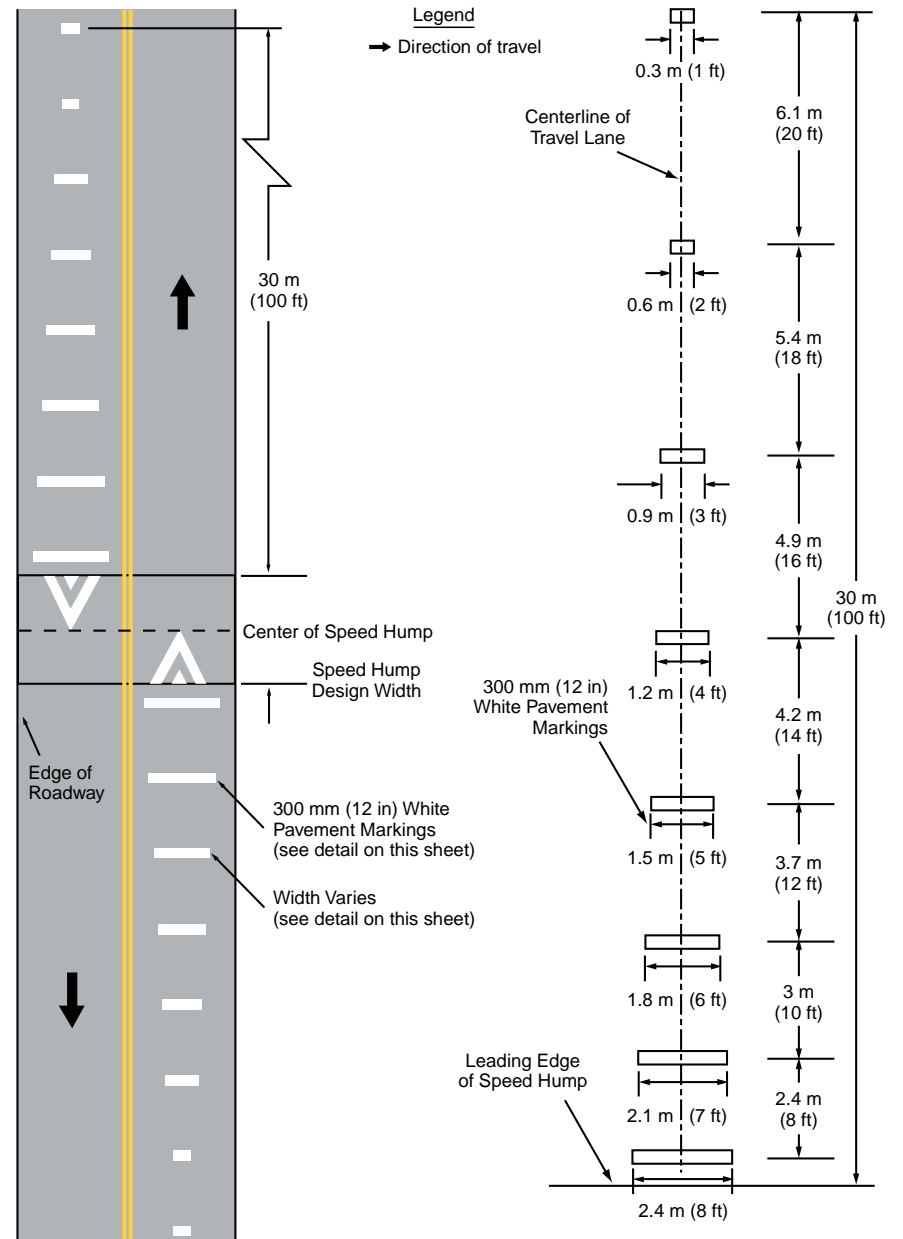
Plaque for new
regulatory sign
or advance
warning sign of
new regulation



Single yellow
centerline
marking on
2-way road
specifically
prohibited

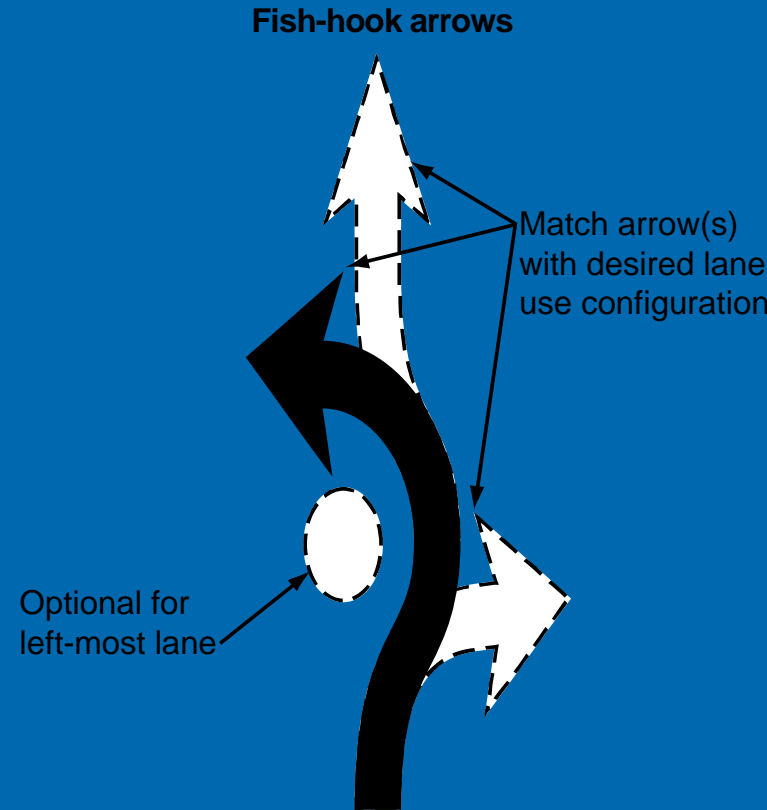


If speed hump markings are used, they shall be those shown in the MUTCD

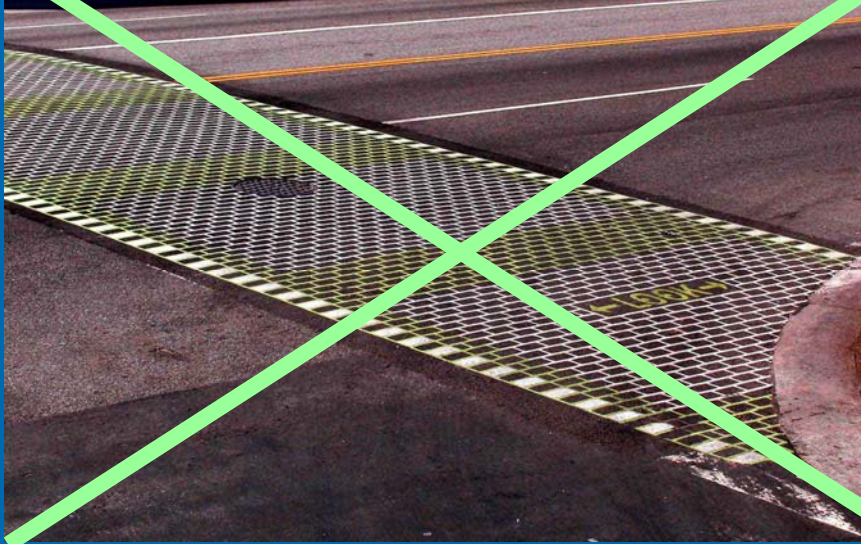


DETAIL—SPEED HUMP ADVANCE WARNING MARKINGS

Optional fish-hook lane-use arrows for approaches to roundabouts



Colored pavements



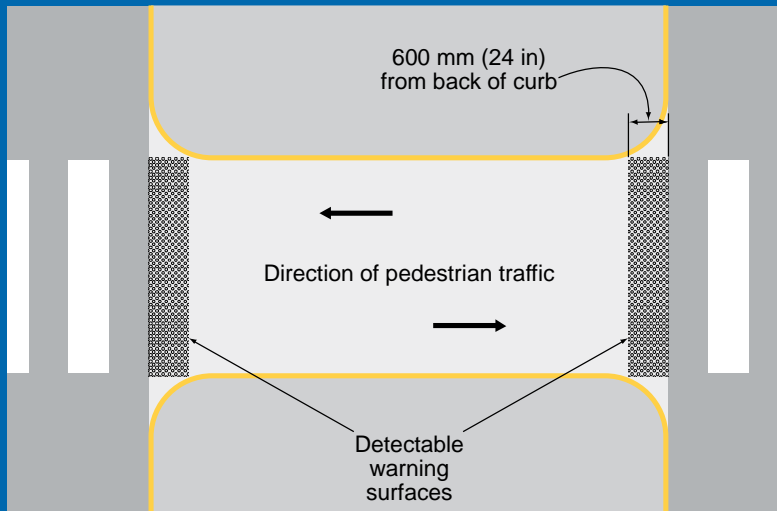
Retroreflective or intended to communicate a regulatory, warning, or guidance message = TCD, must comply with color code & other provisions for markings

Non-retroreflective, for aesthetics only, not to communicate a message = not a TCD



Pedestrian islands and medians

Detectable warning surfaces to mark the boundary between pedestrian and vehicular areas (ADAAG)



U-turn arrow indications



R



Y



G



Use of No Pedestrian Crossing signs at signalized locations



Recommended where it is necessary or desirable to prohibit a pedestrian movement that is not physically prevented by other means

Specific prohibitions of:

- Flashing green
- Vehicular countdown displays
- Other similar “pre-yellow” signal displays
- Strobes or other flashing displays within or adjacent to red signal indications

Revised legal meaning of flashing upraised hand

- Legal right to cross entire divided highway without stopping at the median if the signal is timed to provide sufficient time for pedestrians to cross the entire highway
- If signal timing provides only enough time for pedestrians to cross to the median, median-mounted signs, ped signals, and pushbuttons (if actuated) are required.

New meaning of flashing upraised hand when pedestrian countdown signals are present



Ped may enter the intersection on the flashing upraised hand when a countdown pedestrian signal indication is present if they are able to travel to the far side of the traveled way by the time conflicting traffic receives a green signal

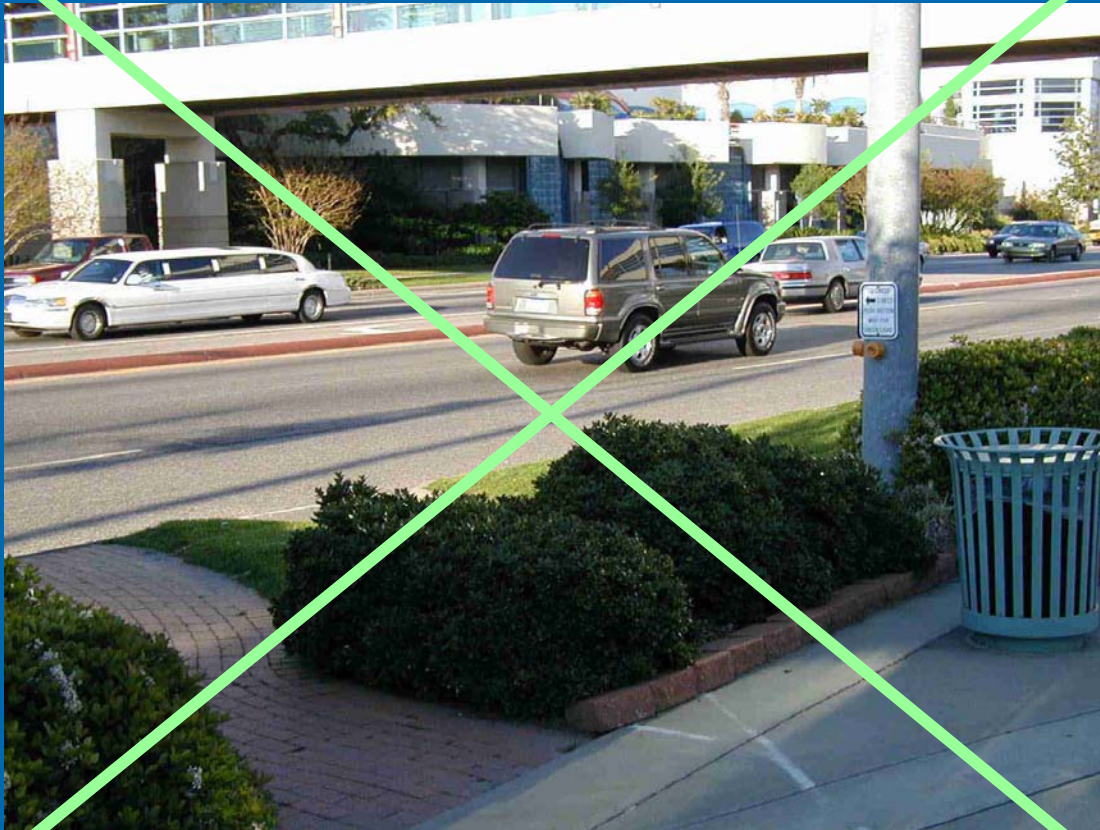
Countdown
displays
required for
all new
pedestrian
signals



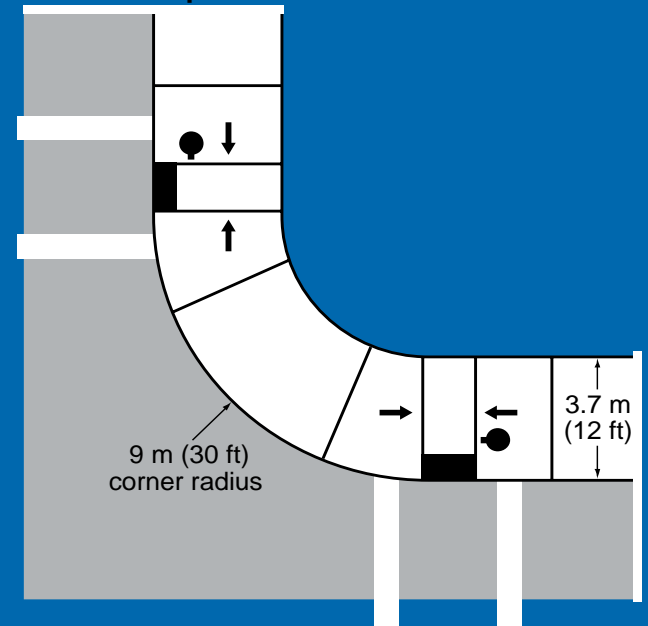
Positioning of pedestrian pushbuttons and legends on pushbutton signs shall clearly indicate which crosswalk signal is activated by which pushbutton.



New figures for locations of pedestrian pushbuttons for a variety of conditions



Parallel ramps with wide sidewalk



Slower walking speed for calculating pedestrian clearance time

Ped. Clearance Time
based on **3.5** feet
per second

~~4.0 feet
per second~~

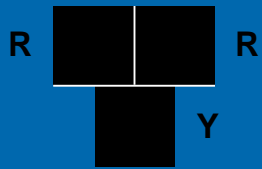
Sum of Walk time +
Ped. Clearance Time
based on **3.0** feet
per second

Accessible Pedestrian Signals (APS) – revised provisions

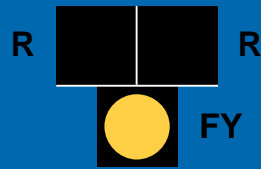
Design features,
extended button presses,
audible beaconing,
special requirements if 2 buttons
must be located on 1 pole.



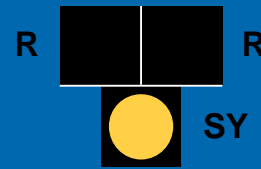
New pedestrian hybrid signal



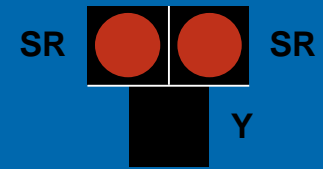
1. Dark Until Activated



2. Flashing Yellow Upon Activation



3. Steady Yellow



4. Steady Red During Pedestrian Walk Interval



5. Alternating Flashing Red During Pedestrian Clearance Interval



6. Dark Again Until Activated

Legend

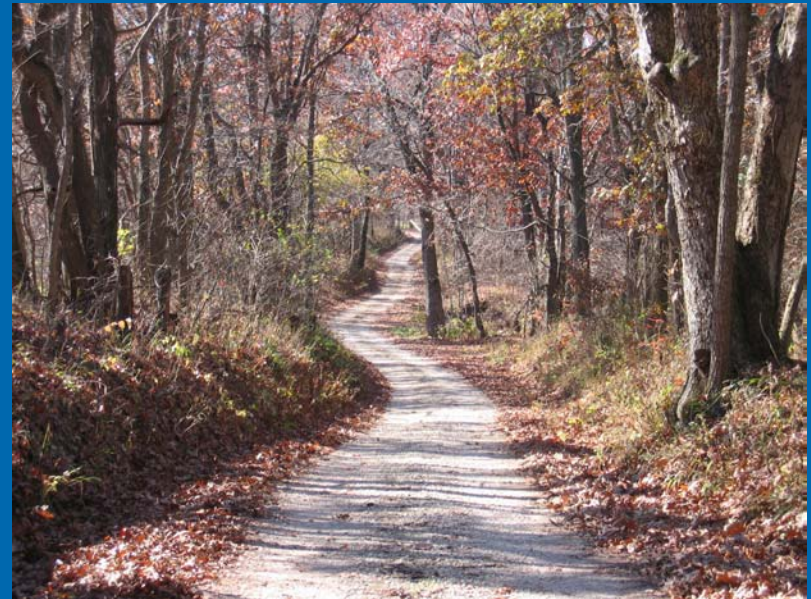
- SY** Steady yellow
- FY** Flashing yellow
- SR** Steady red
- FR** Flashing red

In-roadway lights









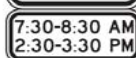

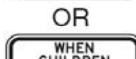
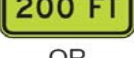

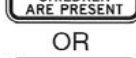


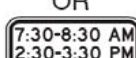





New sign required if lights are actuated by push buttons

Neighborhood residential streets cannot be classified as low-volume roads for which Part 5 would apply

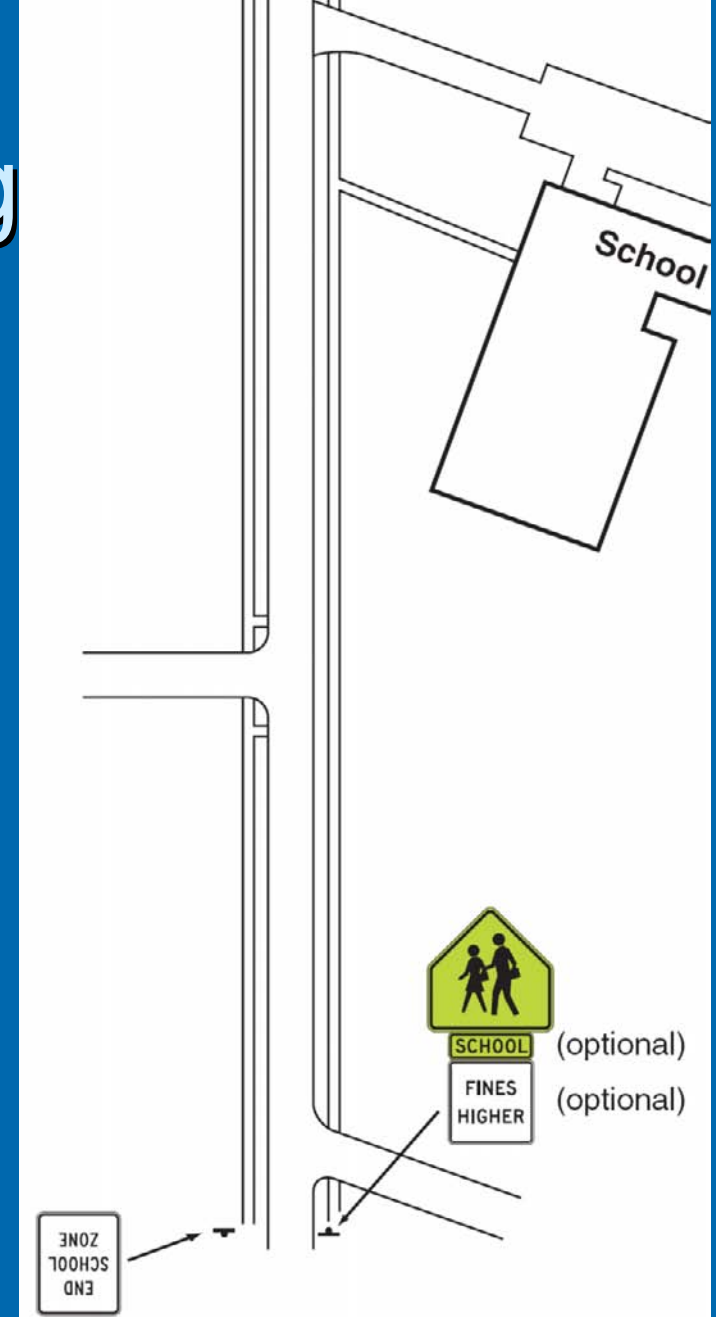


Part 5 applies outside built-up areas of cities,
towns, communities

FYG color required for all school warning signs

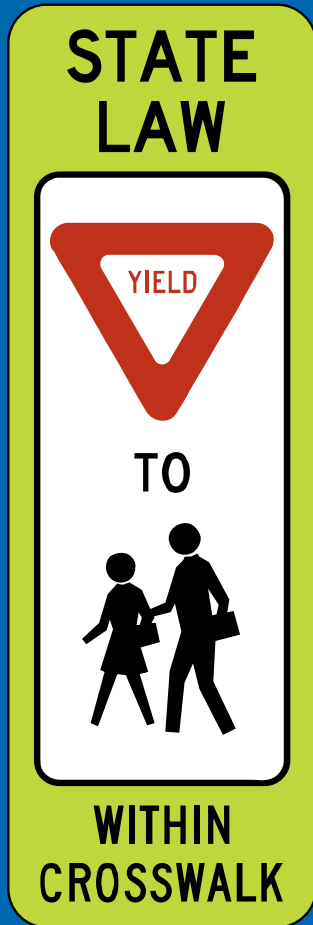
School Advance Crossing Assembly	School Crossing Assembly	School Speed Limit Assembly	
 <p>S1-1</p>	 <p>S1-1</p>	 <p>R2-1</p>	 <p>R2-1(M)</p>
 <p>W16-9P</p>	 <p>W16-7P</p>	 <p>S4-1P</p>	 <p>S4-1P</p>
<p>OR</p>	<p>School Area or School Zone Sign</p>	 <p>S4-2P</p>	
 <p>W16-2aP</p>	 <p>S1-1</p>	 <p>S4-4P</p>	
<p>OR</p>	 <p>S4-3P (optional)</p>	<p>OR</p>	
 <p>W16-2P</p>		 <p>S4-1P</p>	
		 <p>S4-6P</p>	
 <p>S3-1</p>	 <p>S3-2</p>	 <p>S4-5</p>	 <p>S4-5a</p>

New figure illustrating School sign with Fines Higher plaque



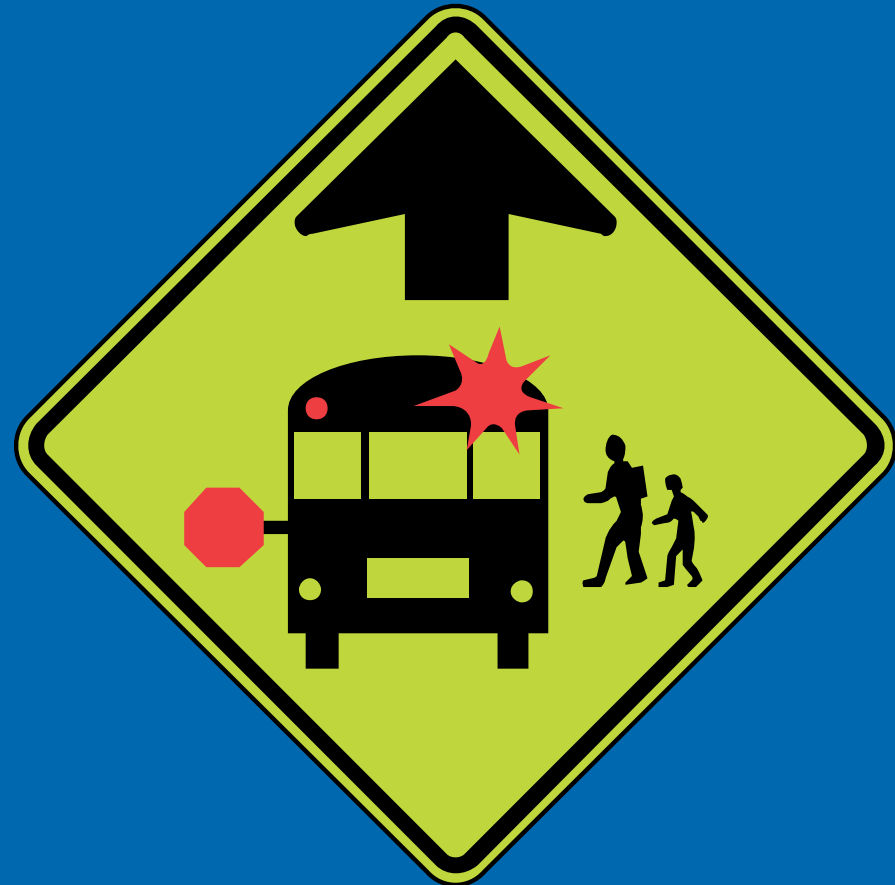
Warning of school zone less than 125 feet away on cross street



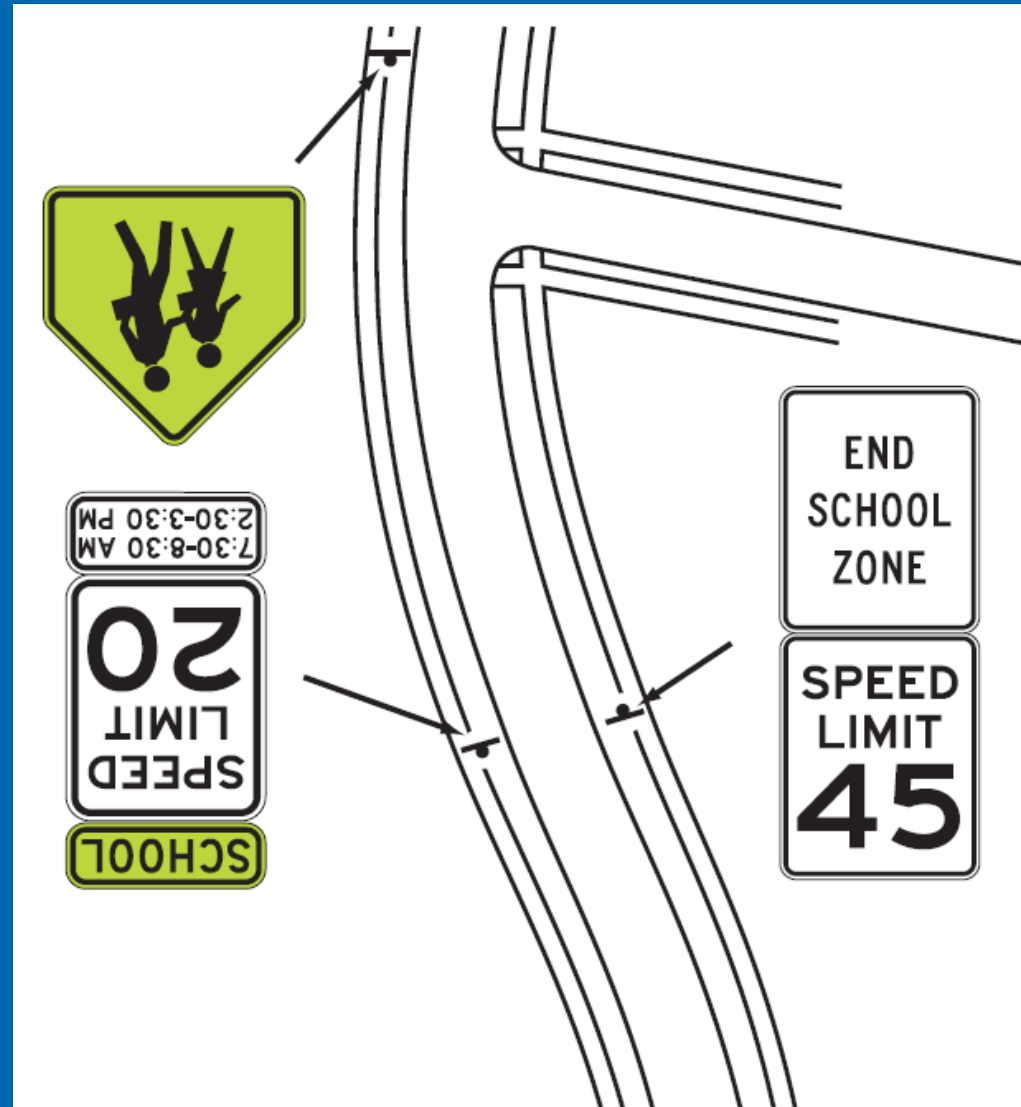


Schoolchildren
symbol may be
used on
in-street signs
at school
crossings

New symbol sign to replace the word message S3-1 sign



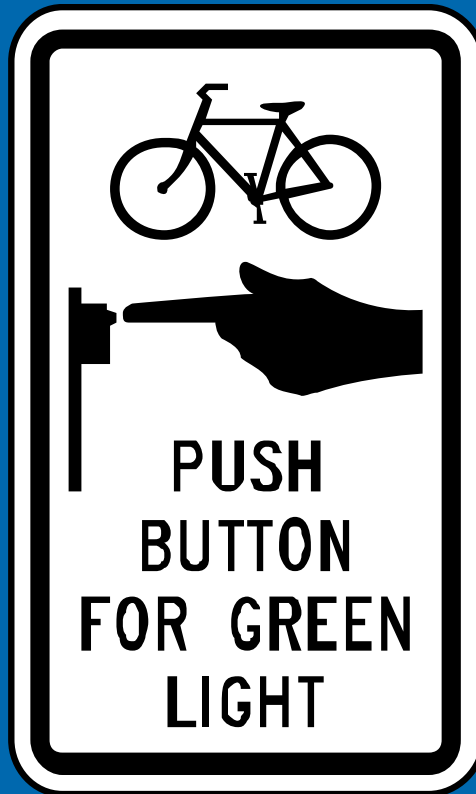
The end of a school speed zone shall be marked with an **END SCHOOL ZONE** sign



Operating procedures for adult school crossing guards changed from recommendations to requirements

- Shall not direct traffic in law enforcement sense
- Shall pick opportune times to create a gap in traffic flow
- Shall stand in roadway
- Shall use a STOP paddle

Two new bicycle pushbutton signs that include a bicycle symbol



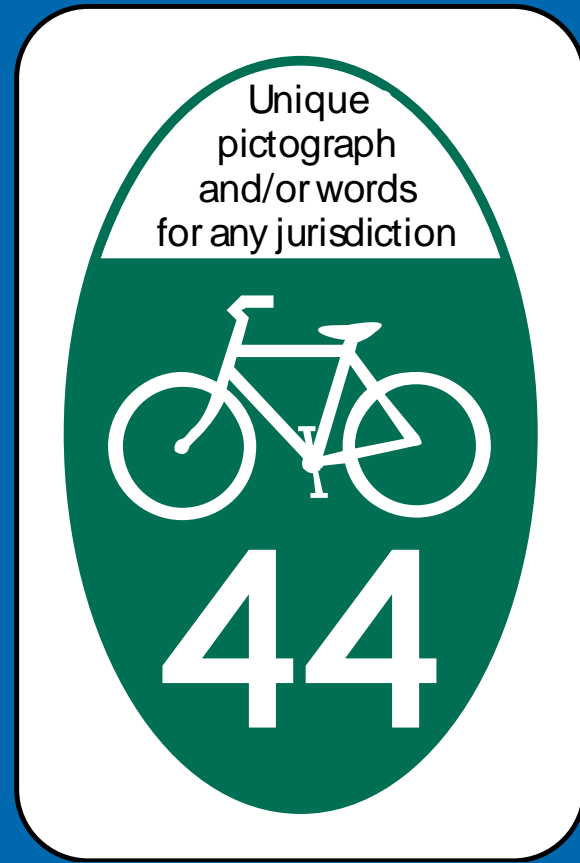
Revised legend of W5-4a sign



New sign and plaque for combined pedestrian/bicycle crossing



New Bike Route sign that provides a place for a pictograph



New selective exclusion signs for modes other than bikes and pedestrians

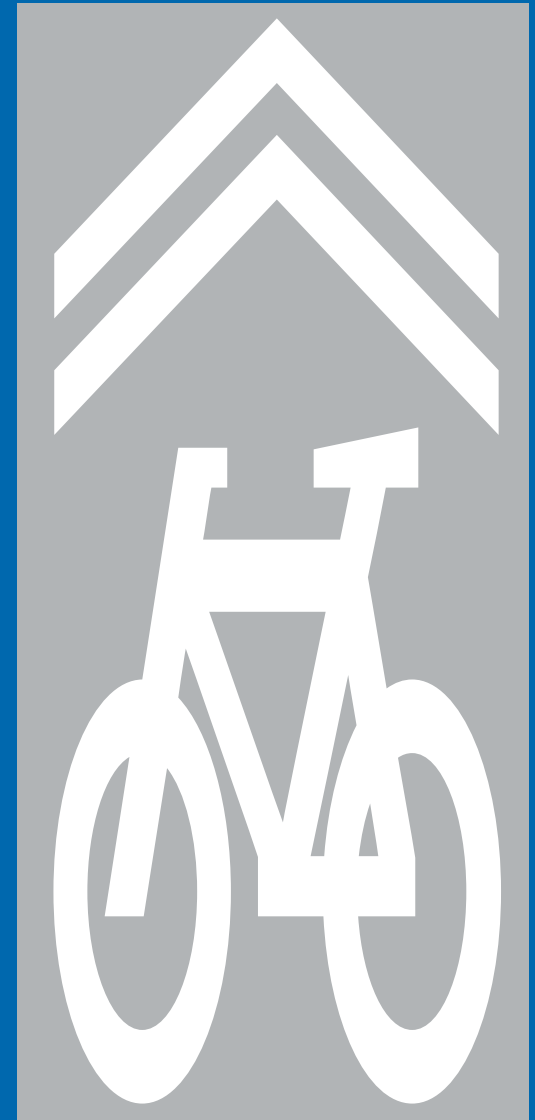


R9-13



R9-14

New shared lane pavement marking symbol



Questions??

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