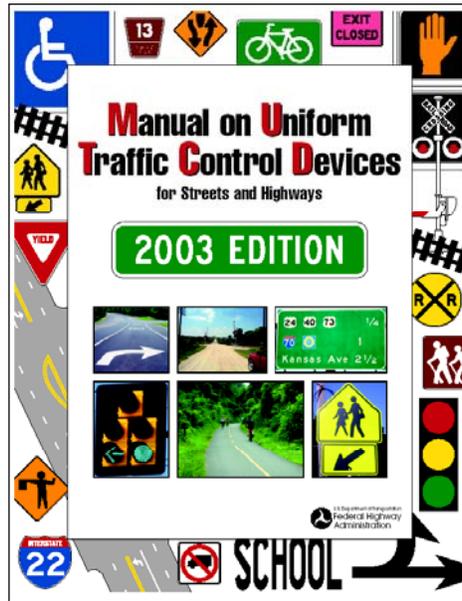


# Jan. 2, 2008 Notice of Proposed Amendments to the MUTCD



January 2, 2008 Notice of Proposed Amendments (NPA)

## Presented By

Mark Wilson  
Chester Henson



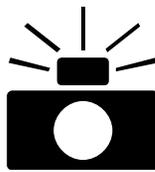
January 2, 2008 Notice of Proposed Amendments (NPA)

# General Revisions to Part 2 – Signs



January 2, 2008 Notice of Proposed Amendments (NPA)

## Many new symbols



January 2, 2008 Notice of Proposed Amendments (NPA)

## New symbols for toll plaza signing



January 2, 2008 Notice of Proposed Amendments (NPA)

## 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



January 2, 2008 Notice of Proposed Amendments (NPA)

## New and revised sign size tables

- Updated/expanded table for regulatory sign sizes
- New detailed sign size tables:
  - Warning signs
  - Conventional road guide signs
  - Freeway/expressway guide signs
  - General service signs
  - General information signs



January 2, 2008 Notice of Proposed Amendments (NPA)



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



January 2, 2008 Notice of Proposed Amendments (NPA)

# Revisions to Chapter 2B – Regulatory Signs



January 2, 2008 Notice of Proposed Amendments (NPA)

## Larger minimum sizes for certain signs on multi-lane roads



January 2, 2008 Notice of Proposed Amendments (NPA)

**Table 2B-2**  
**Minimum Sizes for Signs Facing Traffic on**  
**Multi-lane Conventional Roads**

Sign	Sign Designation	Minimum Size	Old Requirement
Speed Limit	R2-1	30 X 36	24 X 30
Right Lane Must Turn Right	R3-7	36 X 36	30 X 30
Do Not Enter	R5-1	36 X 36	30 X 30
One Way	R6-1	54 X 18	36 X 12
No Turn on Red	R10-11	36 X 48	24 X 30



January 2, 2008 Notice of Proposed Amendments (NPA)



**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**



January 2, 2008 Notice of Proposed Amendments (NPA)

# Signs mounted back-to-back with STOP or YIELD signs should stay within the edges



January 2, 2008 Notice of Proposed Amendments (NPA)

# Variant of "Yield Here to Pedestrians" signs for State laws requiring full stop



January 2, 2008 Notice of Proposed Amendments (NPA)

# In-street pedestrian crossing signs:

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



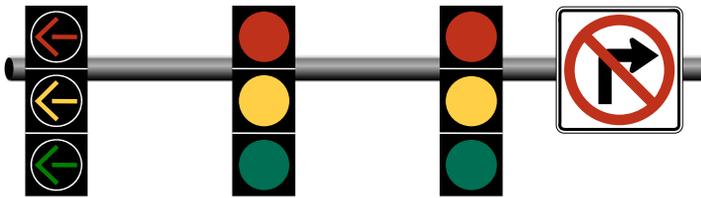
January 2, 2008 Notice of Proposed Amendments (NPA)

# New No Straight Through symbol sign



January 2, 2008 Notice of Proposed Amendments (NPA)

**Movement prohibition signs at signalized intersections should be placed adjacent to the appropriate signal face(s).**



January 2, 2008 Notice of Proposed Amendments (NPA)

**Overhead lane-use control signs should be used on signalized approaches for certain conditions**



January 2, 2008 Notice of Proposed Amendments (NPA)

## New optional signs for enforcement of start of turn lanes



January 2, 2008 Notice of Proposed Amendments (NPA)

Freeway lane drops --  
new regulatory sign to complement "Exit Only" warning panels on guide signs



January 2, 2008 Notice of Proposed Amendments (NPA)



## New regulatory signs for lanes restricted to ETC only



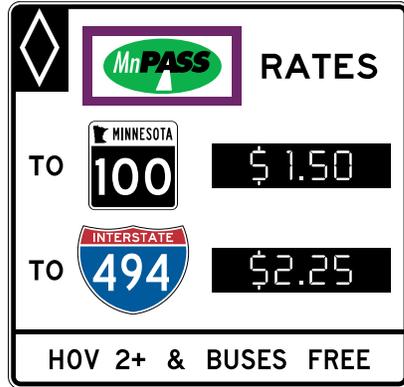
January 2, 2008 Notice of Proposed Amendments (NPA)

## New regulatory signs for toll plazas



January 2, 2008 Notice of Proposed Amendments (NPA)

## New signs for managed lanes with variable toll rates



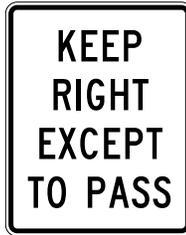
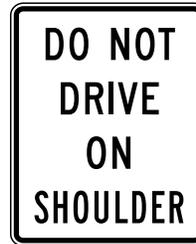
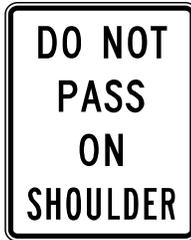
January 2, 2008 Notice of Proposed Amendments (NPA)

## New symbolic design for Do Not Pass sign



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## New regulatory signs



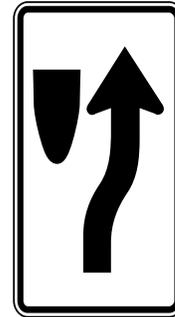
January 2, 2008 Notice of Proposed Amendments (NPA)

## This regulatory sign deleted and replaced with a guide sign design

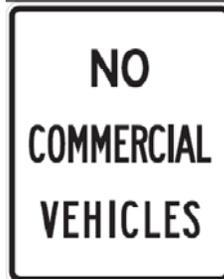


January 2, 2008 Notice of Proposed Amendments (NPA)

## New narrow Keep Right sign for narrow median noses



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



January 2, 2008 Notice of Proposed Amendments (NPA)

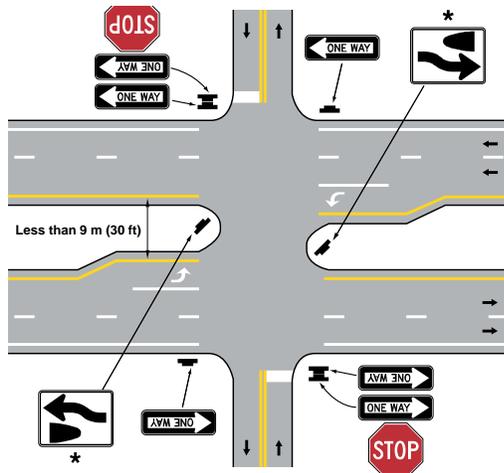
## Regulatory signs for crossovers

FOR  
OFFICIAL  
USE  
ONLY

AUTHORIZED  
VEHICLES  
ONLY



January 2, 2008 Notice of Proposed Amendments (NPA)

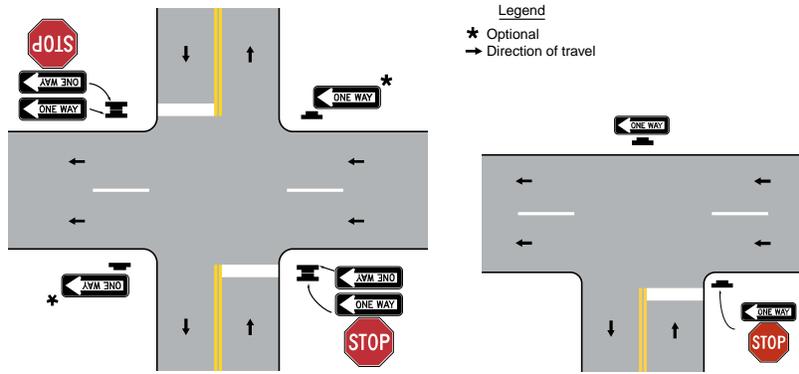


One-way signs required on near right, far left, and far right corners of divided highways



January 2, 2008 Notice of Proposed Amendments (NPA)

## Near side and far side One-way signs required on the minor-street approaches at 4-way and T-intersections



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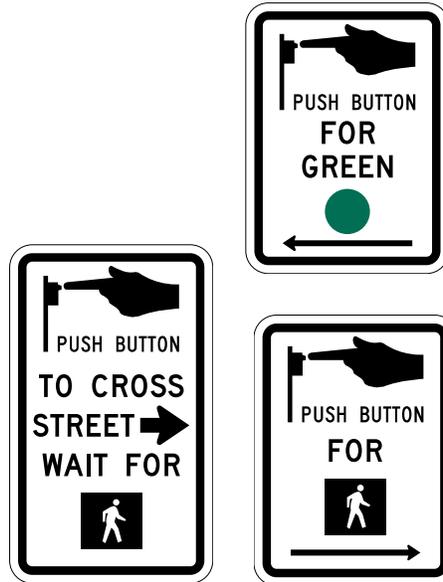


## New pay parking and pay station signs



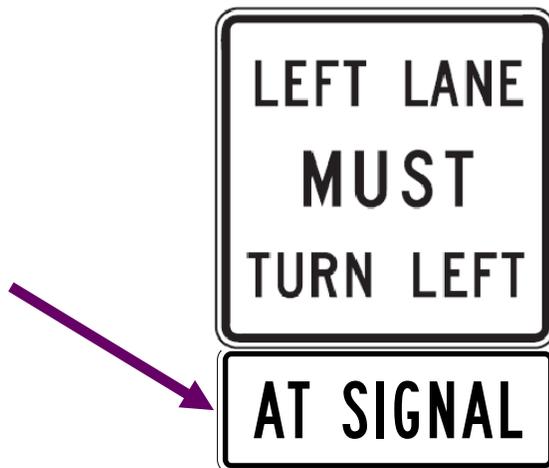
January 2, 2008 Notice of Proposed Amendments (NPA)

## Symbol is being added to pedestrian pushbutton signs



January 2, 2008 Notice of Proposed Amendments (NPA)

## New supplemental plaque for regulatory signs



January 2, 2008 Notice of Proposed Amendments (NPA)

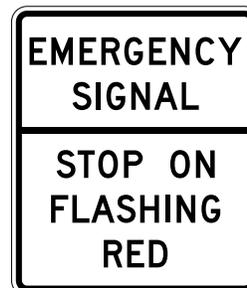


**Required for use with  
pedestrian hybrid signals**

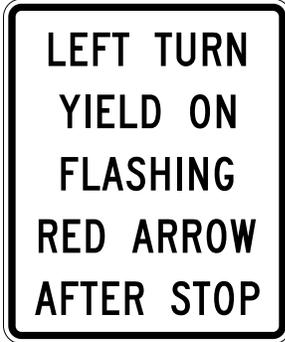


January 2, 2008 Notice of Proposed Amendments (NPA)

**Required for use with  
emergency-vehicle  
hybrid signals**



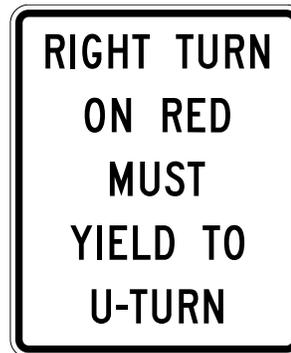
January 2, 2008 Notice of Proposed Amendments (NPA)



**For optional use  
with new flashing  
red arrow signal  
faces**



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





R10-15



## New symbolic design for the R10-15 sign



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## Incident management "Move-it" law sign



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# Revisions to Chapter 2C – Warning Signs



January 2, 2008 Notice of Proposed Amendments (NPA)



Some word message  
signs are being  
deleted



Also---STOP AHEAD, YIELD AHEAD, SIGNAL AHEAD



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# Fluorescent Yellow-Green color

Recommended for pedestrian, bike, and playground signs

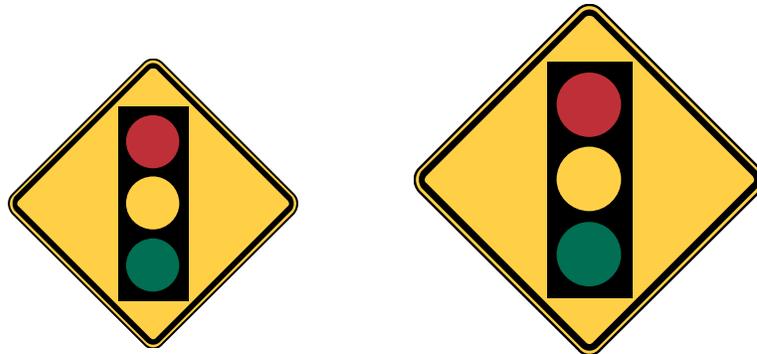


Required for school signs



January 2, 2008 Notice of Proposed Amendments (NPA)

## 36" x 36" Minimum size for all diamond-shaped warning signs on multi-lane conventional roads



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## New table for selection of horizontal alignment signs

Type of Horizontal Alignment Sign	Difference Between Speed Limit and Advisory Speed				
	5 mph	10 km/h or 10 mph	20 km/h or 15 mph	30 km/h or 20 mph	40 km/h or 25 mph or higher
Turn (W1-1), Curve (W1-2), Reverse Turn (W1-3), Reverse Curve (W1-4), and Winding Road (W1-5) (see Section 2C.07 to determine which sign to use)	Recommended	Required	Required	Required	Required
Advisory Speed Plaque (W13-1P)	Recommended	Required	Required	Required	Required
Chevrons (W1-8) and/or One Direction Large Arrow (W1-6)	Optional	Recommended	Required	Required	Required
Combination Horizontal Alignment/Advisory Speed (W1-1a, W1-2a) at beginning of curve	—	—	Optional	Optional	Recommended
Truck Rollover (W1-13) with Advisory Speed Plaque (W13-1P) on exit ramp	—	Optional	Recommended	Required	Required
Exit Speed (W13-2) and Ramp Speed (W13-3) on exit ramp	—	Optional	Recommended	Required	Required



January 2, 2008 Notice of Proposed Amendments (NPA)

Chevrons may be mounted at 4' height



January 2, 2008 Notice of Proposed Amendments (NPA)

## New table for spacing of Chevron signs

Advisory Speed (mph)	Curve Radius (feet)	Sign Spacing (feet)
15 or less	Less than 200	40
20 to 30	200 to 400	80
35 to 45	401 to 700	120
50 to 60	701 to 1,250	160
More than 60	More than 1,250	200



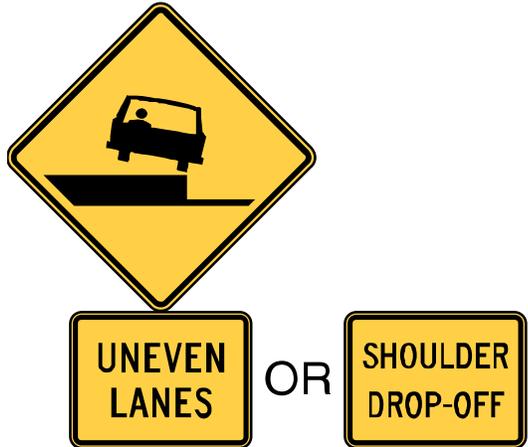
January 2, 2008 Notice of Proposed Amendments (NPA)

## New combination horizontal alignment/advisory exit or ramp speed signs



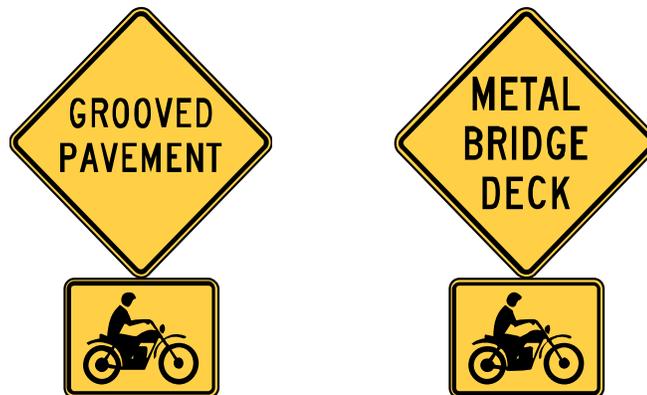
January 2, 2008 Notice of Proposed Amendments (NPA)

## New Uneven Lanes or Shoulder Drop-Off sign and plaques



January 2, 2008 Notice of Proposed Amendments (NPA)

## New signs and plaque to warn of conditions that primarily affect motorcyclists



January 2, 2008 Notice of Proposed Amendments (NPA)



Speed Reduction sign should be used where the speed limit ahead is being reduced by more than 10 mph



Freeway lane drop advance warning



## Warnings of toll road ahead and tollbooth ahead

**TOLL ROAD  
BEGINS  
1 MILE**

**TOLL ROAD  
BEGINS**

**PAY TOLL  
1 MILE  
CARS 75¢**

**STOP AHEAD  
PAY TOLL  
CARS 75¢**



January 2, 2008 Notice of Proposed Amendments (NPA)

## New plaques related to toll roads

**LAST EXIT BEFORE TOLL**

**PAY TOLL 1 MILE - CARS 75¢**

**STOP AHEAD - PAY TOLL**



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# New plaque for circular intersection warning



W2-6



W16-12P

OR



W16-17P



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# Offset side roads and double side roads



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## New sign and plaque for combined pedestrian/bicycle crossing



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## Warning of change in traffic pattern



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



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**Recommended order of 2 street names on advance street name plaque**



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**Plaques for use when STOP signs control all but one approach to the intersection**



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# **Revisions to Chapter 2D – Guide Signs for Conventional Roads**



January 2, 2008 Notice of Proposed Amendments (NPA)



## Provisions for use of pictographs on guide signs

Exceeds max size



January 2, 2008 Notice of Proposed Amendments (NPA)

New TOLL auxiliary sign



January 2, 2008 Notice of Proposed Amendments (NPA)

## New ETC only auxiliary sign



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## Lane designation auxiliary signs



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## New table for letter heights on Street Name signs

Type of Mounting	Type of Street or Highway	Speed Limit	Recommended Minimum Letter Height	
			Initial Upper-case	Lower-case
Overhead	All types	All speed limits	300 mm (12 in)	225 mm (9 in)
Post-mounted	Multi-lane	More than 60 km/h or 40 mph	200 mm (8 in)	150 mm (6 in)
Post-mounted	Multi-lane	60 km/h or 40 mph or less	150 mm (6 in)	113 mm (4.5 in)
Post-mounted	2-lane	All speed limits	150 mm* (6 in)	113 mm* (4.5 in)

\* On local 2-lane streets with speed limits of 40 km/h or 25 mph or less, 100 mm (4 in) initial upper-case letters with 75 mm (3 in) lower-case letters may be used.



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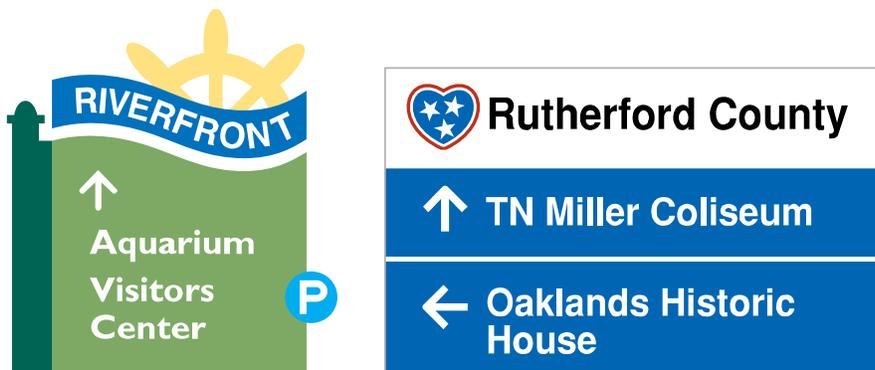
January 2, 2008 Notice of Proposed Amendments (NPA)

## On multi-lane conventional road approaches to interchanges, guide signs identifying the direction of turn or lane to use for each ramp shall be provided



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## New provisions on the design and use of community wayfinding signs



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# Revisions to Chapter 2E – Guide Signs for Freeways and Expressways



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**Down arrows shall always be vertical  
and positioned directly over the approx.  
center of each applicable lane**



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## Significant revisions on diagrammatic sign design and use



Lane lines on arrow shaft  
-- too subtle!



January 2, 2008 Proposed Revisions to the MUTCD



January 2, 2008 Notice of Proposed Amendments (NPA)

## New diagrammatic signs required for "option-lane" exits and splits and will feature an up arrow over each lane



January 2, 2008 Proposed Revisions to the MUTCD



January 2, 2008 Notice of Proposed Amendments (NPA)



For lane drops without an “option lane”, EXIT ONLY panel with down arrow(s) required on all overhead advance guide signs



January 2, 2008 Notice of Proposed Amendments (NPA)



For lane drop without “option lane”, Exit Direction sign shall have EXIT ONLY panel with upward diagonal arrow



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## New requirement for exit numbering by reference location

**EXITS 33 A-B**

Space required between number and letter



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## Guide signs for toll plazas and open-road ETC lanes



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## New guide signs and symbols for toll plaza canopies



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## New symbol identifying nationally interoperable ETC systems, for future use



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## New guide signs for managed and ETC-only facilities



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# Revisions to Chapter 2G – Specific Service Signs (formerly Chapter 2F)



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## Dual-logo sign panels for two businesses in a common facility



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## Specific service trailblazer signs



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# New Chapter 2I – General Information Signs



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## New Chapter with sections relocated from Chapters 2D and 2E

- Reference location signs
- Traffic signal speed sign
- Other I-series general information signs
- Memorial signing
- Trail signs
- Acknowledgement signs



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# Revisions to Chapter 2J – Recreational and Cultural Area Interest Signs (formerly Chapter 2H)



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## Updated and expanded set of recreational and cultural symbol signs



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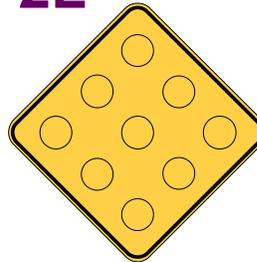
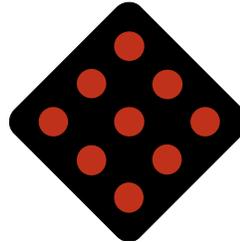
# Revisions to Chapter 2L – Object Markers and Barricades

(formerly Chapter 3C and Section 3F.01)

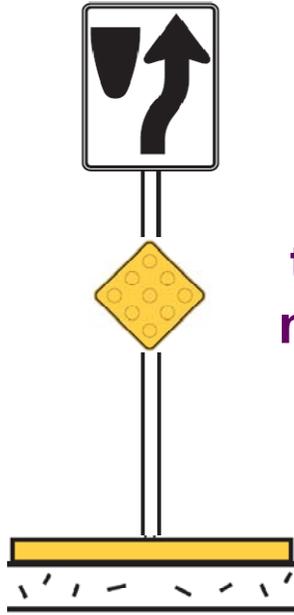


January 2, 2008 Notice of Proposed Amendments (NPA)

Object markers and  
barricades are  
being relocated  
from Part 3 to  
new Chapter 2L



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**Option to use type 1 or type 3 object marker on nose of median island at intersection**



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## **New Section on traffic gates**



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# New Chapter 2M – Changeable Message Signs



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## Provisions for Changeable Message Signs

- Legend Height
- Color
- Phases per Cycle
- Display Time

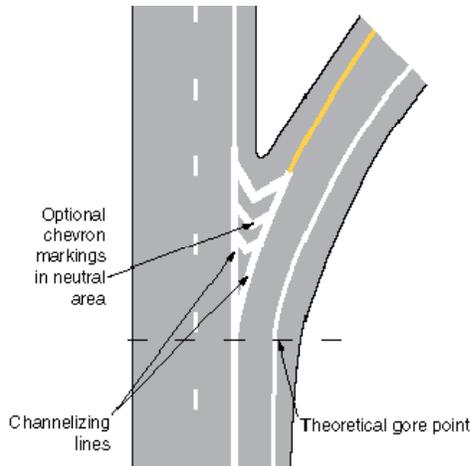


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# Revisions to Part 3 – Markings



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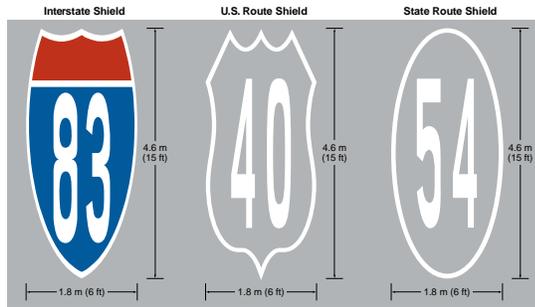
**Definitions of  
neutral area,  
physical  
gore, and  
theoretical  
gore as  
applicable to  
markings**



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# Optional route shield pavement markings



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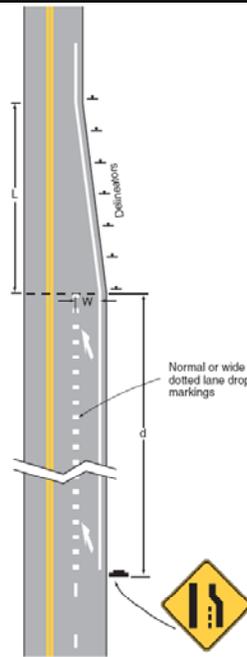
# Dotted (not broken) lane lines shall be used for non-continuing lanes – accel, decel, auxiliary, lane drops



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## Lane reduction markings

- Dotted lane drop markings recommended
- Lane reduction arrows should be used if speed limit is 45 mph or above
- Edge line & delineators in transition may be deleted for low-speed urban locations with curb



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## Revised conditions for provision of marked crosswalks



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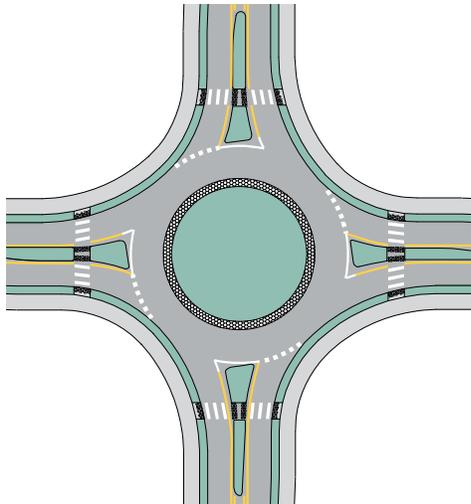


## Optional purple markings for ETC-only lanes at toll plazas

[Note: should be reverse pattern of that shown in photo - white line with purple borders]



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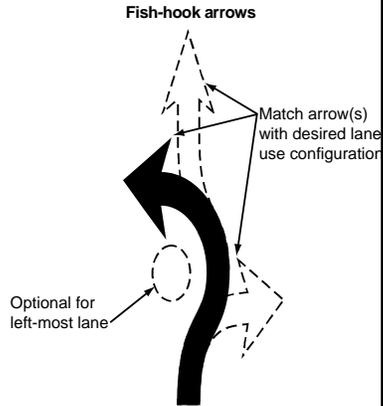


## New Chapter 3C - pavement markings at roundabouts



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



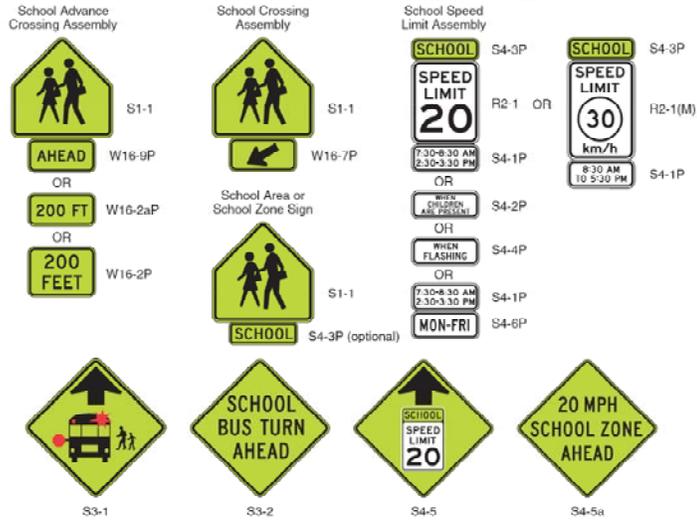
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## Revisions to Part 7 – Traffic Controls for School Areas



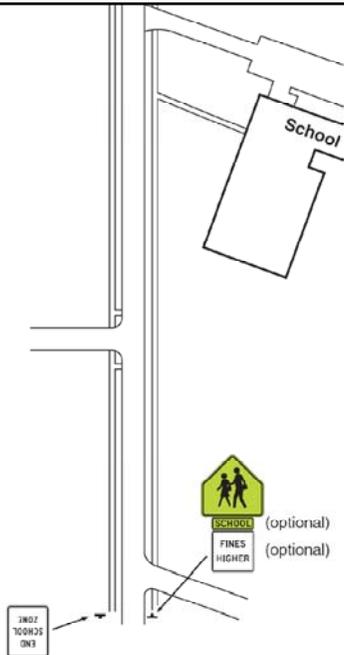
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# FYG color required for all school warning signs



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# New figure illustrating School sign with Fines Higher plaque



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



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



# Revisions to Part 9 – Traffic Controls for Bicycle Facilities



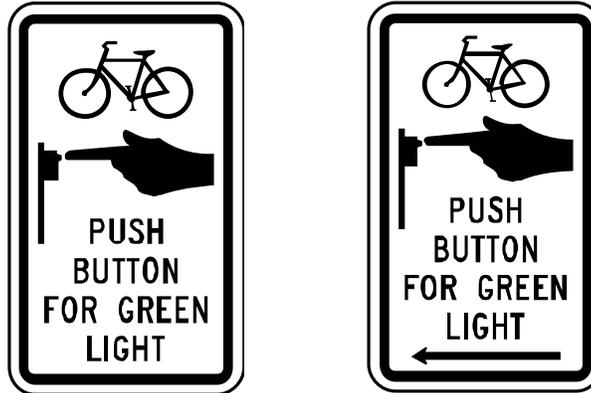
January 2, 2008 Notice of Proposed Amendments (NPA)

## Bike lane regulatory signs changed from requirement to recommendation



January 2, 2008 Notice of Proposed Amendments (NPA)

## Two new bicycle pushbutton signs that include a bicycle symbol



January 2, 2008 Notice of Proposed Amendments (NPA)

## New sign and plaque for combined pedestrian/bicycle crossing



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# End of Presentation

