

### Formatting Revisions

Paragraphs are numbered!

Guidance statements are *italicized*

**Section 4B.01 General**  
Support:  
01 Words such as pedestrians and bicyclists are more sensitive to these elements of "traffic."  
02 Standards for traffic control signals are more stringent for a variety of road users, including those who are fatigued or distracted, or who are not expected to be as attentive.

**Section 4B.02 Basis of Installation or Operation**  
Guidance:  
01 *The selection and use of traffic control signals should be based on the basis of installation or operation and other conditions.*  
Support:  
02 A careful analysis of traffic operations at signalized and unsignalized locations, conditions, and warrants, described in Chapter 4C, that determine whether signals might be justified.  
Guidance:  
03 *Engineering judgment should be applied to the selection of signal timing and other conditions.*

## Part 1 – General

### Section 1A.12 – New purple color for lanes restricted to only vehicles with registered “electronic toll collection accounts”

**A - PICTOGRAPH DESIGN WITH A PURPLE BACKGROUND AND A WHITE CONTRASTING BORDER**

1. Pictograph on a purple or other non-contrasting background

2. Pictograph on a white or other contrasting background

**B - PICTOGRAPH DESIGN WITH A BACKGROUND COLOR OTHER THAN PURPLE, SHOWN ON A PURPLE UNDERLAY PANEL, WITH A WHITE CONTRASTING BORDER**

1. Pictograph on a purple background

2. Pictograph with a purple underlay on a non-contrasting background

3. Pictograph with a purple underlay panel on a white or other contrasting background

### Section 1A.13 – Meanings of text headings (Standard, Guidance, Option, Support) relocated and clarified

- Standard statements **shall not be modified or compromised** based on engineering judgment or engineering study

**Section 1A.13 Definitions of Headings, Words, and Phrases in this Manual**

**Standard:**

01 When used in this Manual, the text headings of Standard, Guidance, Option, and Support shall be defined as follows:

A. **Standard**—a statement of required, mandatory, or specifically prohibitive practice regarding a traffic control device. 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 Options.

B. **Guidance**—a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgment or engineering study indicates the deviation to be appropriate. All Guidance statements are labeled, and the text appears in unbold type. The verb

## Part 2 – Signs

## Many New Symbols



## E-mail, Internet Addresses and Telephone Numbers

- Internet addresses, e-mail addresses, domain names, URLs: prohibited on any sign, plaque, sign panel



- Phone numbers with more than 4 characters should not be shown on any sign, plaque, sign panel (including Specific Service logo panels), or CMS



## LED Signs



May be used within the border, legend or symbol

## Chapter 2B – Regulatory Signs, Barricades, and Gates



The use of 2-WAY, 3-WAY, and 4-WAY plaques is prohibited

ALL-WAY plaque remains as a “shall” if STOP signs are used on all approaches



Divided Highway signs shall be installed on approaches to divided highways with:  
medians  $\geq$  30 feet and  
AADT  $\geq$  400 and  
speed limit  $\geq$  30 mph

## Stop Signs

- Side roads that intersect a multi-lane street or highway
- Speed Limit  $\geq$  45 mph
- Minimum size of STOP sign shall be 36x36
- Speed Limit  $<$  40 mph
- Minimum size 30x30



## Hazardous Materials

- Existing signs have HC
- New federal guidance recommends HM
- For consistency across the nation, we adopted HM



Current TMUTCD



New Federal MUTCD

## Chapter 2C – Warning Signs and Object Markers



Some word message signs  
are deleted



Also – STOP AHEAD, YIELD AHEAD, SIGNAL AHEAD

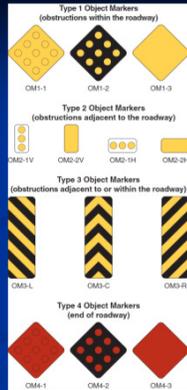
## Signs for Roadway Flooding

- New warning sign for road flooding “ROAD MAY FLOOD”
- Depth gauge shall be yellow
- If depth gauge is used, you shall use the ROAD MAY FLOOD sign

## New Warning Signs for Road Flooding



Object markers  
have been relocated  
from Part 3



## Horizontal Alignment Sign Current TMUTCD Requirements

Table 3D-3. Guidelines for Use of Warning Devices at Curves with Advisory Speed Limits

| Amount by which Advisory Speed is less than Posted Speed | Warning Devices needed |
|--|------------------------|
| 0 to 14 MPH  | RPM's                  |
| 15 to 24 MPH   | RPM's and Delineators  |
| 25 MPH or greater  | RPM's and Chevron      |

## Horizontal Alignment Sign New MUTCD Requirements

Table 2C-5. Horizontal Alignment Sign Selection

| Type of Horizontal Alignment Sign   | Difference Between Speed Limit and Advisory Speed |             |             |          |                |
|---|---|-------------|-------------|----------|----------------|
|   | 5 mph   | 10 mph      | 15 mph      | 20 mph   | 25 mph or more |
| Turn (W1-1), Curve (W1-2), Reverse Turn (W1-3), Reverse Curve (W1-4), Winding Road (W1-5), and Combination Horizontal Alignment/Intersection (W10-1) (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       |
| Exit Speed (W13-2) and Ramp Speed (W13-3) on exit ramp  | Optional  | Optional    | Recommended | Required | Required       |

Note: Required means that the sign and/or plaque shall be used, recommended means that the sign and/or plaque should be used, and optional means that the sign and/or plaque may be used.

## Chapter 2D – Guide Signs for Conventional Roads

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



Only alternatives to the green  
background color for Street Name  
signs are blue, brown, or white\*

\* A black legend shall be used if a white  
background is used, otherwise the legend color  
shall be white

## Community Wayfinding Signs

- Signs that directs motorists to key civic, cultural, visitor and recreational attractions within a city or local urbanized or downtown area.
- Wayfinding Signs SHALL NOT be installed on freeway or expressway mainlanes or ramps.

## Wayfinding Signs

- City installed and maintained.
- Colors other than Green, Red, Yellow, or Orange.
- Non-commercial destinations.



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

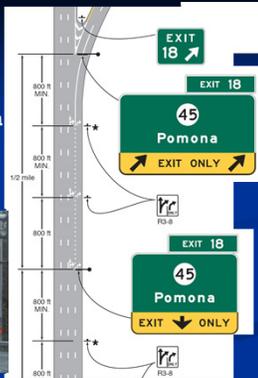
### Overhead Arrow-per-Lane guide signs



- New Overhead Arrow-per-Lane signs for option-lane exits and splits feature an upward-pointing arrow over each lane
- Required at new or reconstructed option lane locations (major interchanges, splits)

### Option Lanes

Standard: Advance guide signs that are mounted overhead shall not display a down arrow over an option lane.



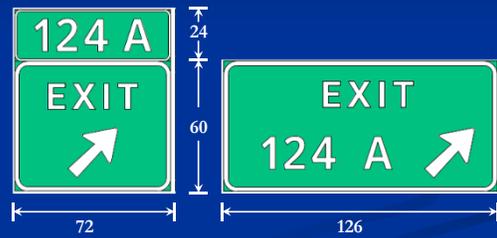
LEFT plaques required for numbered and non-numbered exits to the left

## Exit Gore Signs

Standard: An Exit Gore (E5-1a) shall be used when the replacement of an existing assembly of an E5-1 sign and an E5-1bP plaque becomes necessary.



## Exit Gore Signs



## Part 3 – Markings

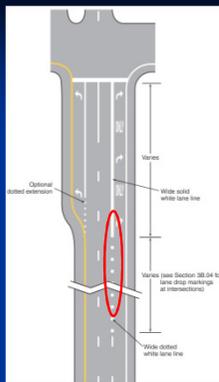
### Section 3B.04 White Lane Line Markings

Dotted (not broken) lane lines shall be used for non-continuing lanes:

- Lane drops (wide dotted)
- Auxiliary lanes (wide dotted)
- Acceleration lanes (normal width dotted)
- Deceleration lanes (normal width dotted)

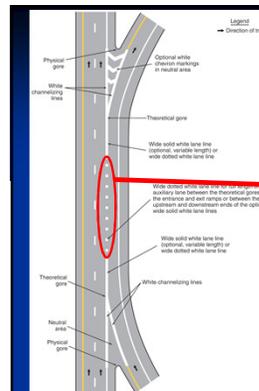
Applies on freeways, expressways, and conventional roads

### Lane drops on conventional roads



Wide dotted

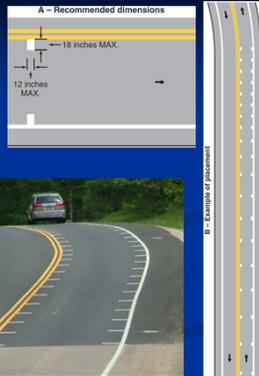
### Auxiliary lanes between ramps



Wide dotted

2 miles or less

Section 3B.22 –  
Speed reduction  
markings added  
as an Option



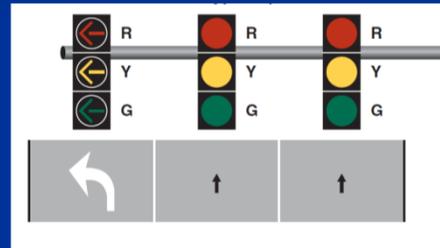
Part 4 –  
Highway Traffic Signals

Section 4D.19 – Protected-only mode  
left-turn faces must use  
red arrow, not circular red

- Applies to left-turn signals but not to right-turn signals



Chapter 4D  
Protective Left Turn Lanes



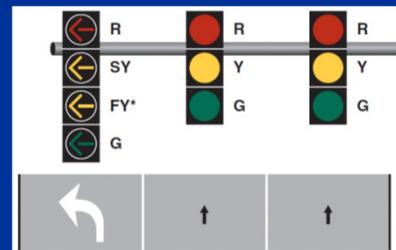
Sections 4D.17 to 4D.20 –  
Signal indications for left turns

- Permissive Left Turn Lanes cannot use solid green indication



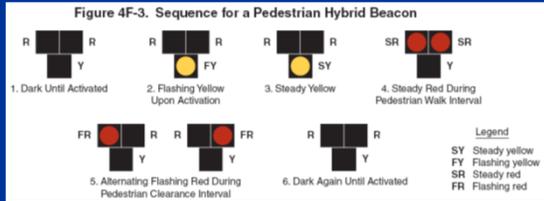
Chapter 4D  
Use of Flashing Yellow Arrow for  
Protective/Permissive Turns

Separate  
signal face  
with FYA for  
PPLT



# Pedestrian Hybrid Beacon

HB 885, 82<sup>nd</sup> Legislation



## Part 6 – Temporary Traffic Control

### Chapter 6E. Flagger Control Automated Flagging Assistance Devices (AFADs)

Type 1: STOP/SLOW paddle AFAD



### Chapter 6E. Flagger Control Automated Flagging Assistance Devices (AFADs)

Type 2: Red/Yellow lens AFAD Shall include a gate arm that descends down on red phase.



### Section 6F.48 Reverse Curve Signs

For multilane shifts, number of arrows and lanes must match or use plaque.



W1 - 4B

or



ALL LANES

## Section 6F.87 Rumble Strips



Black and orange are acceptable colors for transverse rumble strips in TTC zones

## Section 6F.60 PCMS and Section 2L.04 CMS

New Standard – Legend color shall comply with table 2A-5

Table 2A-5. Common Uses of Sign Colors

| Type of Sign                | Legend |       |     |       |        |        |                          |                  |       |      |       |       |         | Background |       |         |        |                          |                  |  |
|-----------------------------|--------|-------|-----|-------|--------|--------|--------------------------|------------------|-------|------|-------|-------|---------|------------|-------|---------|--------|--------------------------|------------------|--|
|                             | Black  | Green | Red | White | Yellow | Orange | Fluorescent Yellow-Green | Fluorescent Pink | Black | Blue | Brown | Green | Orange* | Red*       | White | Yellow* | Purple | Fluorescent Yellow-Green | Fluorescent Pink |  |
| Changeable Message Signs    |        |       |     |       |        |        |                          |                  |       |      |       |       |         |            |       |         |        |                          |                  |  |
| Regulatory                  |        |       | X** | X     | X      |        |                          |                  |       | X    |       |       |         |            |       |         |        |                          |                  |  |
| Warning                     |        |       |     | X     | X      |        |                          |                  |       |      | X     |       |         |            |       |         |        |                          |                  |  |
| Temporary Traffic Control   |        |       |     | X     | X      | X      |                          |                  |       | X    |       |       |         |            |       |         |        |                          |                  |  |
| Guide                       |        |       |     | X     | X      |        |                          |                  |       |      |       | X**   |         |            |       |         |        |                          |                  |  |
| Motorist Services           |        |       |     | X     | X      |        |                          |                  |       | X    | X**   |       |         |            |       |         |        |                          |                  |  |
| Incident Management         |        |       |     | X     | X      |        |                          |                  |       | X    | X     |       |         |            |       |         |        |                          |                  |  |
| School, Pedestrian, Bicycle |        |       |     | X     | X      |        |                          | X                | X     | X    |       |       |         |            |       |         |        |                          |                  |  |

## Part 7 – Traffic Control for School Areas

## New Option Symbol Sign for the S3-1 Word Message Sign



Existing

New

## End of School Zone

END SCHOOL ZONE sign is required for reduced school speed zones.

The Speed Limit sign is optional.



## When will the Texas MUTCD be available?

# Questions?

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