NOTES FOR PAVEMENT MESSAGES:

1. When an arrow and a pavement message are used together, place the message 25 feet back from the stop line. Locate the arrow a distance of "S" downstream from the pavement message. Measure the distance from the base of the arrow to the base of the pavement message. See the Pavement Message Spacing Table for "S" value.

2. Place all pavement messages 25 feet back from the stop line.

3. Dimensions are within 1" ±.

4. All grids are 4" x 4".

5. All pavement messages must be white except route shields.

6. Increase width of route shield for routes with three digits.

GENERAL NOTE:

1. See Index 509-070 for pavement markings at railroad crossings.
PAVEMENT MARKING LINES

Solid Edge Line or Lane Line
Solid Channelizing Line
Two-Lane Passing Prohibited Lines
Double Solid Lines
12" Solid Pedestrian Crosswalk Line
24" Solid Stop Line

YIELD LINES

Equally Spaced YIELD LINES

CONTRAST MARKINGS WITH ALTERNATING SKIP PATTERN

Yield Lines consist of five 18" X 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.
Curb and Gutter
Flush Shoulder

Striping for Buffered Bike Lane

Striping with Shoulder or Non-Buffered Bike Lane

Striping with No Shoulder or Bike Lane

Placement of Longitudinal Pavement Markings

Notes:
1. Lane widths (X) may not be same for each lane in the section.
2. For placement of RPMs, see Index 706-001.
NOTES:
1. Lane widths (X) may not be same for each lane in the section.
2. For placement of Express Lane markers and associated RPMs, see Plans.
3. For placement of RPMs, see Index 706-001.
4. For placement of Express Lane markers and associated RPMs, see the Plans.
DESCRIPTION:

CURB AND GUTTER SHOWN
FLUSH SHOULDER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:

REVISED 11/01/18

REVISED FY 2019-20 STANDARD PLANS

PAVEMENT MARKINGS

INDEX 711-001 SHEET 6 of 13

LAST REVISED 11/01/18

DESCRIPTION:

FLUSH SHOULDER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:

REVISED 11/01/18

REVISED FY 2019-20 STANDARD PLANS

PAVEMENT MARKINGS

INDEX 711-001 SHEET 6 of 13

LAST REVISED 11/01/18

DESCRIPTION:

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PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:

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REVISED 11/01/18

REVISED FY 2019-20 STANDARD PLANS

PAVEMENT MARKINGS

INDEX 711-001 SHEET 6 of 13

LAST REVISED 11/01/18

DESCRIPTION:

FLUSH SHOULDER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:
NOTE:
1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised islands. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.
2. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4' above the grade at the edge of the pavement.
3. Extend double yellow centerlines 100' back from intersection on all approaches or 50' for unmarked cross roads.
TWO WAY LEFT TURN LANE
(With Single Lane Left Turn Channelization)

RIGHT TURN LANE DROP AND ISLAND DETAILS
LEFT TURN LANE DROP IS MIRROR IMAGE

TRAFFIC CHANNELIZATION AT GORE
### LEFT ROADWAY CENTERED ON EXISTING ROADWAY

**Note:** Make pavement markings yellow for left roadway centered on existing roadway. Right roadway centered on existing roadway is similar with white pavement markings.

### SCHEMES FOR TRANSITION - 2 LANE / 4 LANE ROADWAY

<table>
<thead>
<tr>
<th>Design Speed (MPH)</th>
<th>&quot;W&quot; (FT.)</th>
<th>&quot;W+&quot; (FT.)</th>
<th>&quot;Y&quot; (FT.)</th>
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</thead>
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<tr>
<td>60</td>
<td>640</td>
<td>30 OR LESS</td>
<td>30</td>
</tr>
<tr>
<td>55</td>
<td>595</td>
<td>35</td>
<td>20</td>
</tr>
<tr>
<td>50</td>
<td>550</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>45</td>
<td>500</td>
<td>45</td>
<td>20</td>
</tr>
<tr>
<td>40</td>
<td>455</td>
<td>50 OR MORE</td>
<td>40</td>
</tr>
<tr>
<td>30</td>
<td>400</td>
<td>30 Minimum</td>
<td></td>
</tr>
</tbody>
</table>

### RIGHT ROADWAY CENTERED ON EXISTING ROADWAY

**Note:** See Sheet 1 for "S" value.
STANDARD CROSSWALK DETAILS

SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:
1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.

2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.

3. Refer to Index 522-002 when Curb Ramps are present.
** Queue Length **

** Stop Bar (If Required) **

1. This Index also applies to right turn lanes.

2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.

3. See Sheet 1 for "S" value.

** Arrow Spacing **

1. Arrow should be evenly spaced between first and last arrow. Turn lanes longer than 200' add one arrow for each 100' additional length.

** Notes:**

1. This Index also applies to right turn lanes.

2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.

3. See Sheet 1 for "S" value.

** Urban Conditions **

<table>
<thead>
<tr>
<th>Design Speed (mph)</th>
<th>Clearance Distance</th>
<th>Brake To Stop Distance</th>
<th>Total Decel. Distance</th>
<th>Clearance Distance</th>
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</thead>
<tbody>
<tr>
<td>35</td>
<td>70'</td>
<td>75'</td>
<td>140'</td>
<td>110'</td>
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<tr>
<td>40</td>
<td>80'</td>
<td>75'</td>
<td>155'</td>
<td>120'</td>
</tr>
<tr>
<td>45</td>
<td>80'</td>
<td>100'</td>
<td>185'</td>
<td>135'</td>
</tr>
<tr>
<td>50</td>
<td>100'</td>
<td>125'</td>
<td>240'</td>
<td>160'</td>
</tr>
<tr>
<td>55</td>
<td>125'</td>
<td>225'</td>
<td>290'</td>
<td>215'</td>
</tr>
<tr>
<td>60</td>
<td>140'</td>
<td>260'</td>
<td>405'</td>
<td>230'</td>
</tr>
<tr>
<td>65</td>
<td>170'</td>
<td>290'</td>
<td>460'</td>
<td>270'</td>
</tr>
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</table>

<table>
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** Notes:**

1. This Index also applies to right turn lanes.

2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.

3. See Sheet 1 for "S" value.
NOTES:
1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only are public sidewalk curb ramp locations. For public locations refer to Federal Standards 595a.
4. Tint blue pavement markings to match color 15180 of Federal Standards 595a.
5. Mount FTP-22-06 sign below the FTP-21-06 sign.

FOR ACCESSIBLE MARKINGS - SEE ABOVE

"DIMENSIONS"

<table>
<thead>
<tr>
<th>Angle</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
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</thead>
<tbody>
<tr>
<td>45°</td>
<td>19-1&quot;</td>
<td>12-9&quot;</td>
<td>7-0&quot;</td>
<td>27-0&quot;</td>
<td>17-0&quot;</td>
</tr>
<tr>
<td>60°</td>
<td>20-1&quot;</td>
<td>10-5&quot;</td>
<td>5-9&quot;</td>
<td>23-7&quot;</td>
<td>13-10&quot;</td>
</tr>
</tbody>
</table>

For Forward-In Parking

FORWARD-IN PARKING

For Reverse-In Parking

REVERSE-IN PARKING

"Use of pavement symbol in accessible parking spaces is optional, when used the symbol shall be 3" or 5" high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY
NOTES:
1. All grids are 4" x 4".
2. Pavement Marking Should Not Extend Into Opposing Lane.

SCHOOL PAVEMENT MARKING

MARKINGS FOR SCHOOL ZONES

SINGLE-LANE APPROACH

TWO-LANE APPROACH

MULTI-LANE APPROACH (Three or More)