### Diagrammatic Plan and Profile

#### Table: Super-elevation

<table>
<thead>
<tr>
<th>Case</th>
<th>Design Speed (mph)</th>
<th>50 ft/s (m/s)</th>
<th>40 ft/s (m/s)</th>
<th>30 ft/s (m/s)</th>
<th>20 ft/s (m/s)</th>
<th>10 ft/s (m/s)</th>
<th>5 ft/s (m/s)</th>
<th>2.5 ft/s (m/s)</th>
<th>Super-elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>5</td>
<td>2.5</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>60</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>60</td>
<td>70</td>
<td>60</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>70</td>
<td>80</td>
<td>70</td>
<td>60</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>3</td>
</tr>
</tbody>
</table>

**Key:**
- R: Radius of Curve (ft)
- V: Design Speed (mph)
- e: Full Super-elevation Rate (%)
- L: Minimum Length of Super-elevation Runoff (ft)
- V: Design Speed (mph)
- e: Full Super-elevation Rate (%)
- L: Minimum Length of Super-elevation Runoff (ft)
- R = 1/1000; L = 1/300 in Column C
- e = 1/200; L = 1/300 in Column D

**Note:** For curves radii intermediate between table values, use a straight-line interpolation to determine the super-elevation rate.

### General Notes

1. State Aid Division USE STANDARD 80-83.
2. In the table is for rotation about the centerline of 2 lanes (1/2 MD) and 4 lanes (1/4 MD) of traveled ways.
3. Minimum length of runoff for various widths of rotation are as follows.
4. For a width of 3 travel lanes, L = 1/200 (in Column B)
5. Minimum length of runoff for all curves.
6. Vertical curve with a length (in feet) equal to 200% of the design speed on the way should be placed at excessive angular breaks.

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**State Project No.:** MISS

**Mississippi Department of Transportation**

**Roadway Design Division**

**Super-elevation Transition**

**Case 1**

**Rotation About Centerline**

**2% Normal Subgrade**

**All Dimensions Are in Millimeters (Except Where Noted)**

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