SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

Approaches Approach signing shall include the following signs as a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

- Road work Next x Miles
- Road work 500 Feet
- End Road Work

Work Area At each work site, signs and channelizing devices shall be used as directed by the Resident. Signs include:

- Road Work xxxx
- One Lane Road Ahead
- Flagger Sign

Other typical signs include:

- Be Prepared to Stop
- Low Shoulder
- Bump
- Pavement Ends

The above lists of Approach signs and Work Area signs are representative of the contract Requirements. Other sign legends may be required.

The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 800 m [2,500 ft] at each work area. To encourage quality paving in warm-weather conditions, the length can be extended to 4,000 ft depending on the traffic impacts. Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1.6 km [1 mile] of two way operation.

Temporary Centerline A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings.

Failure to apply a temporary centerline daily will result in a Traffic Control Violation and suspension of paving operations until temporary markers are applied to all previously placed pavement.

¹ “Road Work Ahead” to be used in mobile operations and “Road Work xx ft” to be used in stationary operations as directed by the Resident.
PROJECT APPROACH SIGNING
TWO WAY TRAFFIC
TYPICAL APPLICATION: TWO-WAY, TWO LANE ROADWAY, CLOSING ONE LANE USING FLAGGERS
**TYPE OF TAPER** | **TAPER LENGTH (L)**
---|---
Merging Taper | at least L
Shifting Taper | at least 0.5L
Shoulder Taper | at least 0.33L
One-Lane, Two-Way Traffic Taper | 100 ft (30 m) maximum
Downstream Taper | 100 ft (30 m) per lane

*Formulas for L are as follows:
For speed limits of 40 mph (60 km/h) or less:
\[ L = \frac{WS^2}{60} \quad (L = \frac{WS^2}{155}) \]
For speed limits of 45 mph (70 km/h) or greater:
\[ L = \frac{WS}{1.6} \]

*Formulas for L are as follows:
A minimum of 5 channelization devices shall be used in the taper.

**CHANNELIZATION DEVICE SPACING**
The spacing of channelization devices shall not exceed a distance equal to 1.0 times the speed limit in mph when used for taper channelization, and a distance in feet of 2.0 times the speed limit in mph when used for tangent channelization.

**SIGN SPACING TABLE**

<table>
<thead>
<tr>
<th>Road Type</th>
<th>Distance Between Signs**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Urban 30 mph (50 km/h) or less</td>
<td>100 (30)</td>
</tr>
<tr>
<td>Urban 35 mph (55 km/h) and greater</td>
<td>350 (100)</td>
</tr>
<tr>
<td>Rural</td>
<td>500 (150)</td>
</tr>
<tr>
<td>Expressway / Urban Parkway</td>
<td>2,640 (800)</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**
1. Final placement of signs and devices may be changed to fit field conditions as approved by the Resident.

**SUGGESTED BUFFER ZONE LENGTHS**

<table>
<thead>
<tr>
<th>Speed (mph)</th>
<th>Length (feet)</th>
<th>Speed (mph)</th>
<th>Length (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>115</td>
<td>40</td>
<td>325</td>
</tr>
<tr>
<td>25</td>
<td>155</td>
<td>45</td>
<td>360</td>
</tr>
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<td>30</td>
<td>200</td>
<td>50</td>
<td>425</td>
</tr>
<tr>
<td>35</td>
<td>250</td>
<td>55</td>
<td>495</td>
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</tbody>
</table>