1. Insert spacing chart distances into layouts and remove chart whenever practical.

2. Consider the installation of a PCMS and/or G20-X2 or special sign. If congestion is expected, if advance signing to reduce traffic is needed or other conditions determined by the engineer.

3. Consider the installation of a PCMS and/or G20-X1 sign (modified) or G20-X2 sign for seven-day advance warning of restriction.

4. For any excavation or drop-off in excess of 12 in., see the Minnesota Manual on Uniform Traffic Control Devices Section 8F.85 "Temporary Traffic Barriers".

5. For closures greater than 1000 ft., see layout to "Lane Closure Extension".


7. When impacting pedestrian facilities, temporary pedestrian access routes must be provided. See layout 6J-24 and 6J-25 for guidance.

8. Contact appropriate road authority for signal timing modifications and possible turn restrictions before beginning work at any signalized intersection.

9. Cover or modify all directional signing affected by any turn restrictions. Include sign modifications, covers or removals in traffic control plan.

10. Consider right turn lane placement based on expected que lengths.

11. The flashing arrow board shall be used when the posted speed limit is 40 MPH or greater, and shall be placed fully on the shoulder. If there is no shoulder, or the shoulder is too narrow, place the flashing arrow board at the end of the taper in lieu of the Type III Barricade Assembly.

<table>
<thead>
<tr>
<th>POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)</th>
<th>SPACING OF ADVANCE WARNING SIGNS (FT)</th>
<th>SPACING OF CHANNELIZING DEVICES (FT)</th>
<th>DECISION LINE DISTANCE (FT)</th>
<th>TAPER LENGTH (FT)</th>
<th>BUFFER SPACE (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>25</td>
<td>100</td>
<td>50</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>35 - 40</td>
<td>25</td>
<td>325</td>
<td>700</td>
<td>500</td>
<td>300</td>
</tr>
<tr>
<td>45 - 50</td>
<td>50</td>
<td>600</td>
<td>1000</td>
<td>800</td>
<td>600</td>
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<td>1400</td>
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<tr>
<td>60 - 65</td>
<td>1000</td>
<td>1600</td>
<td>1200</td>
<td>900</td>
<td>800</td>
</tr>
<tr>
<td>70 - 75</td>
<td>1200</td>
<td>1600</td>
<td>1200</td>
<td>900</td>
<td>800</td>
</tr>
</tbody>
</table>

Designer Notes (remove from layout before inserting in plan):

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