Design Notes (Remove from Layout before inserting in Plan):

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 divert traffic is needed, or other conditions determined by the Engineer.

3. Consider the installation of a PCMS and/or G20-X1 (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 6F.85 "Temporary Traffic Barriers".

5. For closures greater than 1000 ft., see Layout 70 "Lane Closure Extension".

6. Select appropriate material for temporary markings. See striping key.

7. Remove conflicting markings. Determine quantity of markings to be removed or covered for pay item quantities.

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**Pavement Marking Removal**

- 4" Solid Yellow Removable Preformed Plastic Marking
- Drums, Type I or Type II Barricade or Vertical Panel
- Solid Line Pavement Marking with Temporary Pad
- Pavement Markers at 10' Spacing or Reflective Tape

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**Multi-Lane Undivided Road 40 MPH or Less**

- Long Term
- Road Work
- Left Lane Closed

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**Spacing Chart**

<table>
<thead>
<tr>
<th>Posted Speed Limit Prior to Work Starting (MPH)</th>
<th>SPACING Channelizing Devices (feet)</th>
<th>SPACING of Advance Warning Signs (feet)</th>
<th>Decision Sight Distance (feet)</th>
<th>Taper Length (feet)</th>
<th>Buffer Space (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>25</td>
<td>100</td>
<td>550</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>35 - 40</td>
<td>325</td>
<td>100</td>
<td>325</td>
<td>100</td>
<td>325</td>
</tr>
</tbody>
</table>

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**Changeable Message Sign (PCMS)**

- Variable Min. 100'