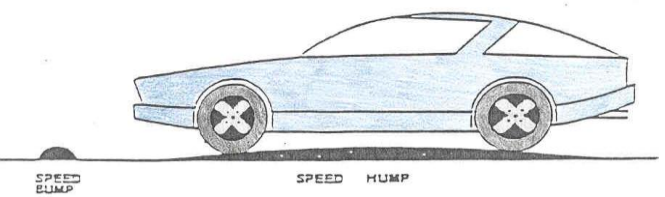
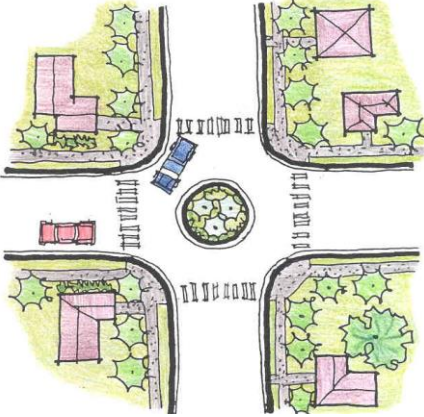


# Neighborhood Traffic Management Program

This document shows a variety of traffic calming devices that may be recommended by WCRC's engineering staff if a neighborhood qualifies through the Neighborhood Traffic Management Program (NTMP). Speed humps are the most frequently recommended and implemented device.

Questions? Contact (734) 761-1500.


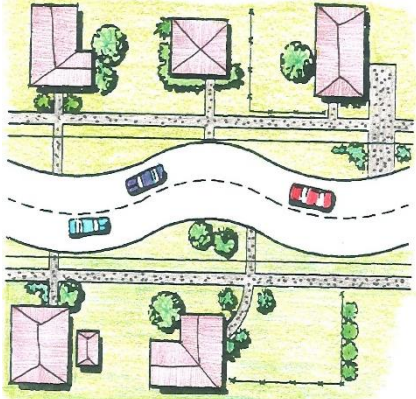
	Devices	Advantages	Disadvantages
<p>1. Speed Humps</p>		<ul style="list-style-type: none"> <li>• Reduces speed</li> <li>• Can cause traffic to shift to arterial system and no longer cut through the neighborhood</li> </ul>	<ul style="list-style-type: none"> <li>• Can cause traffic to shift to parallel residential streets</li> <li>• Affects emergency response times</li> <li>• Contents of vehicles can be jarred</li> <li>• Increase in noise adjacent to hump</li> </ul>
<p>2. Traffic Circle</p>		<ul style="list-style-type: none"> <li>• Reduces speeds</li> <li>• Can discourage truck entry</li> <li>• Provides area for additional landscaping</li> </ul>	<ul style="list-style-type: none"> <li>• Required signing may detract from its aesthetic quality</li> <li>• Potential obstacle for motorist to run into</li> <li>• Road users must adjust to a less traditional type of left turn</li> </ul>

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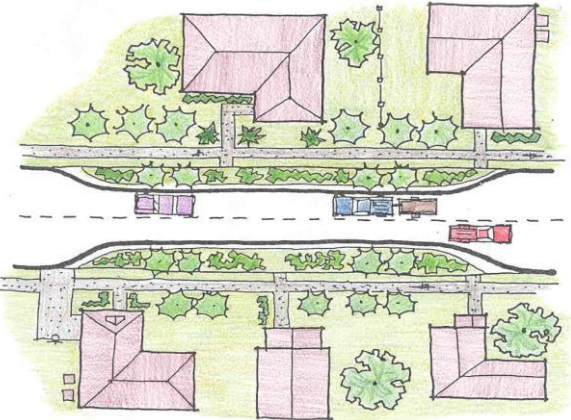
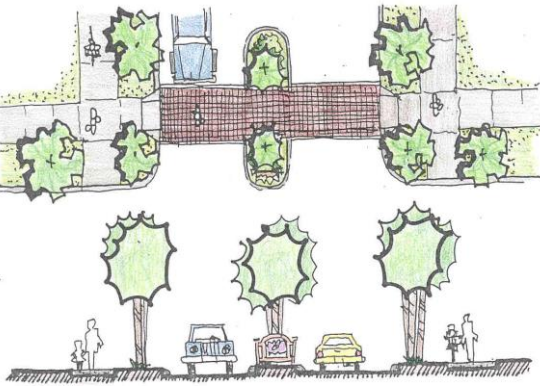
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<p>3. Raised Intersection</p>		<ul style="list-style-type: none"> <li>• Effective speed reduction</li> <li>• Aesthetically pleasing if well designed</li> <li>• Good pedestrian safety treatment</li> </ul>	<ul style="list-style-type: none"> <li>• Expensive to construct and maintain</li> <li>• Affects emergency vehicle response time</li> </ul>
<p>4. Chicanes</p>		<ul style="list-style-type: none"> <li>• Slows vehicle speeds</li> <li>• Fire and transit vehicles are not impeded significantly</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of on-street parking</li> <li>• Landscaping and signing/stripping has to be regularly maintained</li> <li>• May require changes to on-street drainage</li> </ul>

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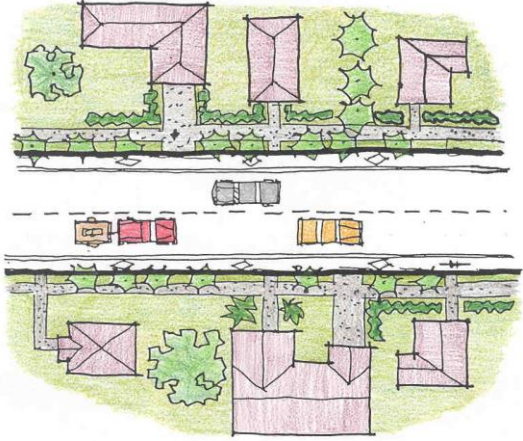
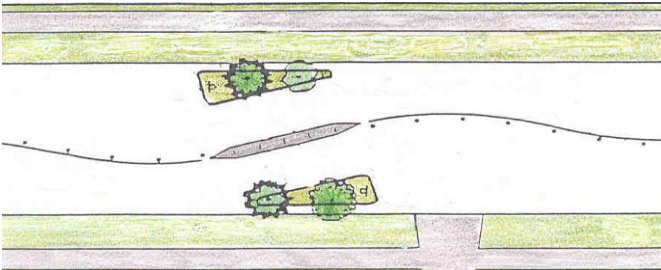
Questions? Contact (734) 761-1500.

<p>5. Chokers</p>		<ul style="list-style-type: none"> <li>• Slight slowing is normally the result</li> <li>• Shorter pedestrian crossing distances and better motorist-pedestrian visibility of each other</li> <li>• Creates added streetscape area</li> <li>• Can discourage truck entry</li> </ul>	<ul style="list-style-type: none"> <li>• Potential obstacle for motorist to run into</li> <li>• May result in loss of curbside parking</li> <li>• May require reworking of surface drainage</li> </ul>
<p>6. Gateway /Pedestrian Refuge Island</p>		<ul style="list-style-type: none"> <li>• Creates an identity to a neighborhood</li> <li>• Creates added streetscape area</li> <li>• Can discourage truck entry</li> <li>• Allows two-stage crossing for pedestrians</li> </ul>	<ul style="list-style-type: none"> <li>• Can impede legitimate truck movements</li> <li>• Increased maintenance costs</li> </ul>

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<p>7. Narrowing Lanes</p>		<ul style="list-style-type: none"> <li>• Changes can be quickly implemented</li> <li>• The striping can be easily modified if paint is used</li> <li>• Speed may decrease and safety is improved through the provision of positive guidance to drivers</li> </ul>	<ul style="list-style-type: none"> <li>• Would increase regular maintenance</li> <li>• Residents do not always perceive striping is an effective tool for speed reduction</li> <li>• Cost of resurfacing would increase if different materials used</li> </ul>
<p>8. Two Lane Angled Slow Point</p>		<ul style="list-style-type: none"> <li>• Slows vehicle speeds</li> <li>• Fire and transit vehicles are not impeded significantly</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of on-street parking</li> <li>• Landscaping and signing/striping has to be regularly maintained</li> </ul>



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<p>9. Bulb-outs</p>	A diagram illustrating the use of bulb-outs at a four-way intersection. The intersection is shown from a top-down perspective. The four corners of the intersection are rounded out with landscaped areas containing trees and grass. A yellow car is shown approaching from the top, a blue car from the bottom, and a yellow car from the right. The road surface is shown with dashed lines for lane markings.	<ul style="list-style-type: none"><li>• May be aesthetically pleasing, if landscaped</li><li>• Good for pedestrians due to shorter crossing</li><li>• Can be used in multiple application</li></ul>	<ul style="list-style-type: none"><li>• Increased landscaping maintenance</li><li>• Landscaping may cause sight distance problems</li></ul>
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