

CENTERLINE, EDGELINE, PARKING **LANE STRIPING**

Edgeline/Centerline striping creates narrowed roadways to slow vehicle speeds.

Suitable for:

- Residential streets
- Collector streets

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic* Volumes below 10,000.
- Speed limit below or equal to 35 mph.
- Street width greater than or equal to 15 feet.

Approx. Cost

\$0.50 - \$1.00 per linear foot of striping

Approval

City's discretion to approve, provided that criteria are met.

TARGETED SPEED ENFORCEMENT

A portable speed feedback sign setup on-street to alert drivers to vehicle speeds.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Locations with speeding concerns
- High pedestrian activity areas

Not Suitable for:

- Intersections
- Significant roadway curvature

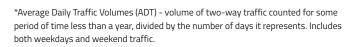
Implementation Threshold

- Average Daily Traffic* Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$5,000 - \$15,000

Approval







SPEED LEGENDS

Speed legends are used to inform drivers of the current speed limit.

Suitable for:

- Residential streets
- Collector streets

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$250 - \$500 / ea

Approval

City's discretion to approve, provided that criteria are met.

SIGNAGE

Signage improves awareness to speed limits, pedestrians, and other potential hazards.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Locations with speeding concerns
- High pedestrian activity areas
- Significant roadway curvature

Not Suitable for:

Intersections



Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$250 - \$ 500 / ea

Approval







HIGH VISIBILITY CROSSWALKS

Ladder markings and defined crosswalk widths heighten awareness of pedestrian crossings.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Arterial streets
- Mid-block crossings
- Intersection crosswalks
- High pedestrian activity areas

Not Suitable for:

Low pedestrian volume locations

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$3.00 - \$4.50 / linear foot of striping

Approval

City's discretion to approve, provided that criteria are met.

BOTTS' DOTS/RAISED REFLECTORS

Botts' dots provide tactile feedback to drivers moving across travel lanes.

Suitable for:

- School zones
- Residential streets
- Collector streets
- T-Intersections

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$1,500 - \$2,000 / ea

Approval

60% residents need to approve







LAWN SIGNS

Signs installed on front lawns that are used to remind drivers to drive slowly.

Suitable for:

- School Zones
- Residential streets
- Collector streets

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 1,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval

N/A



INCREASED PATROL AND WARNINGS/CITATIONS

Increased patrol and warnings/citations can effectively reduce speeding and inappropriate driving.

Suitable for:

- Residential streets
- Collector streets
- Locations with speeding concerns

Not Suitable for:

Not applicable

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval





DECORATIVE SURFACING

Colorful and decorative pavement markings to draw driver attention and slow down traffic.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Locations with speeding concerns
- Mid-block crossings
- Intersection crosswalks
- High pedestrian activity areas

Not Suitable for:

Low pedestrian volume locations

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval

City's discretion to approve, provided that criteria are met.

POP-UP TRAFFIC CALMING DEMONSTRATION

Involve community members to demonstrate traffic calming devices through temporary installations.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Locations with speeding concerns

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 1,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval





ANGLED PARKING

Angled parking narrows travel lanes to slow vehicle speed and increases parking supply.

Suitable for:

- Downtown areas
- Commercial areas
- Mixed-Use areas
- Residential streets
- Collector streets

Not Suitable for:

Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 3,000.
- Speed limit below or equal to 35 mph.
- Street width greater than or equal to 48 feet.

Approx. Cost

Varies

Approval

City's discretion to approve, provided that criteria are met.

SPEED FEEDBACK SIGNS

Speed feedback signs are permanently installed to alert drivers of their driving speeds.

Suitable for:

- School zones
- Residential streets
- Collector streets
- Arterial streets
- Locations with speeding concerns
- High pedestrian activity areas

Not Suitable for:

- Intersections
- Significant roadway curvature

SPEED YOUR SPEED

Implementation Threshold

Average Daily Traffic Volumes below 10,000.

Speed limit below or equal to 35 mph.

Approx. Cost

\$5,000 - \$15,000 / ea

Approval





FLASHING BEACONS

Flashing beacons warn drivers of pedestrians at an uncontrolled crossing location.

Suitable for:

- School Zones
- Mixed-use areas
- Residential streets
- Collector streets

Not Suitable for:

Not applicable

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$15,000 - \$25,000 / ea

Approval

City's discretion to approve, provided that criteria are met.

ROAD DIET (BIKE LANE, MEDIAN)

Road diet replaces a number of travel lanes with other modal facilities and slow vehicle speeds.

Suitable for:

- School Zones
- Collector streets
- Downtown areas
- Residential areas
- High bicycle/pedestrian traffic

Not Suitable for:

Not Applicable

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Street width greater than or equal to 48 feet.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval







RUBBER SPEED BUMPS

Rubber speed bumps slow driver speeds with vertical roadway deflections.

Suitable for:

- Residential streets
- Persistent speeding
- High cut-through volumes

Not Suitable for:

- Collector streets
- Arterial streets

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$2,000 - \$4,000 / ea

Approval

City's discretion to approve, provided that criteria are met.

STRIPED BULBOUTS WITH BOLLARDS

Bulbouts slow vehicle speeds with the impression o a narrowed roadway.

Suitable for:

- Downtown streets
- Residential streets
- Collector streets
- Arterial streets
- High pedestrian activity areas
- Long pedestrian crossing distances

Not Suitable for:

- Low pedestrian activity areas
- Narrow streets

Implementation Threshold

- Average Daily Traffic Volumes below 1,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$3,500 - \$7,500 per intersection

Approval







TEMPORARY TRAFFIC CIRCLES

Low cost alternative to permanent Traffic Circles require drivers to slowly maneuver through an intersection.

Suitable for:

- Residential streets
 - Collector streets
- Locations with speeding concerns
- High accident rate

Not Suitable for:

- Horizontal curvature
- Vertical curvature

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

\$5,000 - \$8,000 / ea

Approval

City's discretion to approve, provided that criteria are met.

STRIPED CHICANES WITH BOLLARDS

Low cost alternative to permanent Chicanes require drivers to slowly maneuver through high speeding roadways.

Suitable for:

- Wide residential streets
- Collector streets
- Downtown areas
- Significant roadway curvature
- Locations with speeding concerns

Not Suitable for:

Narrow roadways

Implementation Threshold

- Average Daily Traffic Volumes below 10,000.
- Street width greater than or equal to 48 feet.
- Speed limit below or equal to 35 mph.

Approx. Cost

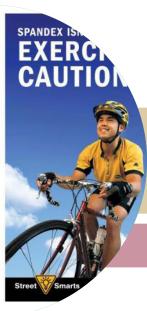
\$5,000 - \$7,500 / ea

Approval









STREET SMARTS PROGRAM

Traffic safety education program designed to build awareness, offer safety tips, and change driver behavior to help make our streets safer.

Suitable for:

- Downtown streets
- Residential streets
- Collector streets
- High pedestrian activity areas

Not Suitable for:

Low pedestrian activity areas

Implementation Threshold

Petition Process

Approx. Cost

Varies

Approval

City's discretion to approve, provided that criteria are met.

PACE CAR PROGRAM

Residents pledge to drive at 25 mph, requiring following vehicles to drive at lower speeds, and thereby slowing traffic in the neighborhood.

Suitable for:

- Downtown streets
- Residential streets
- Collector streets
- High pedestrian activity areas

Not Suitable for:

Low pedestrian activity areas



Implementation Threshold

Petition Process

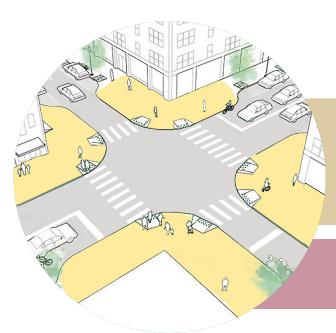
Approx. Cost

Varies

Approval







FULL/DETACHED BULBOUTS

Bulbouts slow vehicle speeds with the impression of a narrowed roadway.

Suitable for:

- Downtown streets
- Residential streets
- Collector streets
- Arterial streets
- High pedestrian activity areas
- Long pedestrian crossing distances

Not Suitable for:

- Low pedestrian activity areas
- Narrow streets
- High truck volumes

Implementation Threshold

- Average Daily Traffic Volumes below 1,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

≥ \$50,000 per intersection

Approval

City's discretion to approve, provided that criteria are met.

TWO-LANE CHOKERS

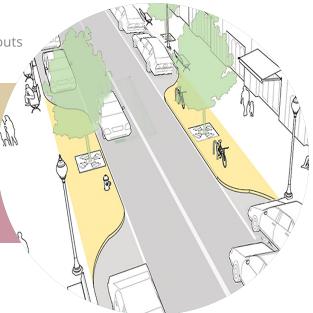
Two lane chokers function similarly to bulbouts but at mid-block locations.

Suitable for:

- Wide streets
- High cut-through volumes

Not Suitable for:

- Emergency access routes
- High on-street parking demand
- High bicycle volumes



Implementation Threshold

- Average Daily Traffic Volumes below 1,000.
- Speed limit below or equal to 35 mph.
- Street length greater than/equal to 1,500 feet.

Approx. Cost

\$25,000 - \$50,000 / pair

Approval





MEDIAN ISLAND/ PEDESTRIAN REFUGE

Pinchpoint in the center of the roadway that reduce travel lane width and pedestrian crossing distances.

Suitable for:

- Wide residential streets
- Collector streets
- Mid-block crossings
- Long crossing distances
- High pedestrian activity areas
- Locations with speeding concerns

Not Suitable for:

Narrow roadways

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

Varies

Approval

City's discretion to approve, provided that criteria are met.

TRAFFIC CIRCLES

Traffic Circles require drivers to slowly maneuver through an intersection.

Suitable for:

- Residential streets
- Collector streets
- Locations with speeding concerns
- High accident rate

Not Suitable for:

- Horizontal curvature
- Vertical curvature

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

≥ \$25,000 / ea

Approval





ROUNDABOUTS

Roundabouts require drivers to slowly maneuver through an intersection operating with yield control.

Suitable for:

- Collector streets
- Arterial streets
- Locations with speeding concerns
- High accident rate

Not Suitable for:

- Horizontal curvature
- Vertical curvature

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

≥ \$50,000 / ea

Approval

60% residents need to approve + City's discretion to approve, provided that criteria are met.

LATERAL SHIFTS

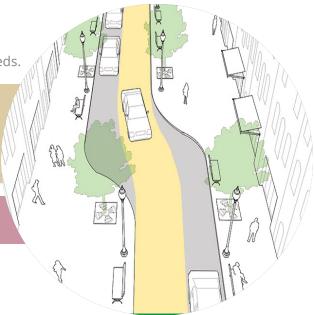
Lateral shifts force drivers to make slight maneuvers, resulting in slower vehicle speeds.

Suitable for:

- Residential streets
- Collector streets
- **Arterial Streets**
- Locations with speeding concerns

Not Suitable for:

High vehicle volumes



Implementation Threshold

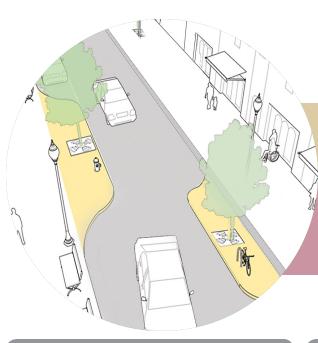
- Average Daily Traffic Volumes below 10,000.
- Speed limit below or equal to 35 mph.
- Street width greater than or equal to 15 feet.

Approx. Cost

Varies







CHICANES

Chicanes functions similarly to lateral shifts and require less roadway reconfigurations.

Suitable for:

- Wide residential streets
- Wide Collector streets

Not Suitable for:

- Arterial streets
- Emergency access routes
- High on-street parking demand
- High bicycle traffic

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.
- Street length greater than/equal to 1,500 feet.
- Street width greater than or equal to 15 feet.

Approx. Cost

\$25,000 - \$50,000 / pair

Approval

60% residents need to approve + City's discretion to approve, provided that criteria are met.

ASPHALT SPEED BUMPS

Asphalt speed bumps slow driver speeds with vertical roadway deflections.

Suitable for:

- Residential streets
- Persistent speeding
- High cut-through volumes

Not Suitable for:

- Collector streets
- Arterial streets

Implementation Threshold

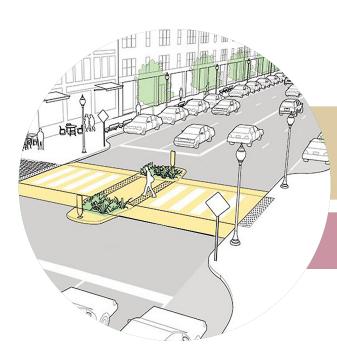
- Average Daily Traffic Volumes below 3,000.
- Speed limit below or equal to 30 mph.

Approx. Cost

\$7,000 - \$10,000 / ea

Approval





RAISED CROSSWALKS

Raised crosswalks slow driver speeds with vertical deflections and emphasis of pedestrian right-of-way.

Suitable for:

- School zones
- Residential streets
- Mid-block crossings
- High pedestrian activity areas

Not Suitable for:

- Arterial streets
- Intersections

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.
- Grade below or equal to 8 percent.

Approx. Cost

\$10,000 - \$20,000 / ea

Approval

60% residents need to approve + City's discretion to approve, provided that criteria are met.

RAISED INTERSECTIONS

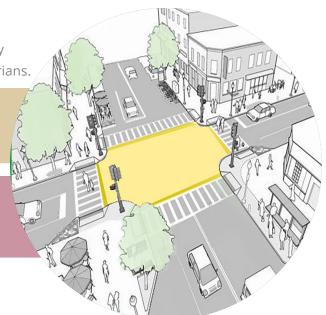
Raised intersections slow drivers speed by emphasizing a "shared zone" with pedestrians.

Suitable for:

- Downtown areas
- High pedestrian activity areas
- High vehicle speeds

Not Suitable for:

- Residential streets
- Collector streets
- Arterial streets



Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Speed limit below or equal to 35 mph.

Approx. Cost

≥ \$50,000 / ea

Approval





DIAGONAL DIVERTERS

Diagonal diverters reduce traffic entering neighborhoods by permanently detouring certain routes.

Suitable for:

- Residential streets
- Locations with speeding concerns
- Limited access desired

Not Suitable for:

- Arterial streets
- Collector streets if significant traffic diversion anticipated

Implementation Threshold

- Average Daily Traffic Volumes below 5,000.
- Greater than 25% non-local traffic.

Approx. Cost

≥ \$25,000 / ea

Approval

60% residents need to approve + City's discretion to approve, provided that criteria are met.

PARTIAL CLOSURES

Partial closures reduce traffic in neighborhoods by restricting one direction of traffic.

Suitable for:

- Residential streets
- Locations with speeding concerns
- Limited access desired

Not Suitable for:

- Arterial streets
- Collector streets if significant traffic diversion anticipated

Implementation Threshold

- Average Daily Traffic Volumes below 500.
- Greater than 25% non-local traffic.

Approx. Cost

≥ \$25,000 / ea

Approval





FULL CLOSURES

Full closures reduce traffic entering neighborhoods by restricting vehicular access.

Suitable for:

- Residential streets
- Locations with speeding concerns
- Limited access desired

Not Suitable for:

- Arterial streets
- Collector streets if significant traffic diversion anticipated

Implementation Threshold

- Average Daily Traffic Volumes below 500.
- Greater than 25% non-local traffic.

Approx. Cost

≥ \$25,000 / ea

Approval

60% residents need to approve + City's discretion to approve, provided that criteria are met.

FORCED TURN ISLANDS

Raised concrete islands separate turning traffic from through traffic at an intersection.

Suitable for:

- Residential streets
- Collector streets
- Locations with speeding concerns
- Limited access desired

Not Suitable for:

Not applicable

Implementation Threshold

- Average Daily Traffic Volumes below 500.
- Greater than 25% non-local traffic.

Approx. Cost

≥ \$25,000 / ea

Approval

