



city of albuquerque

2021 NTMP

# RANCHO SERENO/BUTTERFIELD NEIGHBORHOOD TRAFFIC MANAGEMENT PROGRAM



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# INTRODUCTIONS

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# PRESENTATION OUTLINE

- Neighborhood Traffic Management Program (NTMP)
- NTMP Process
- Rancho Sereno Evaluation
- Traffic Calming Options
- Public Input
- Conclusion



# NEIGHBORHOOD TRAFFIC MANAGEMENT PROGRAM

The goal: to address speeding and cut-through traffic on local residential streets using a set of traffic-calming tools.

## Key Aspects:

- Public involvement
- Improve traffic safety
- Evaluate safety issues & recommend improvements
- Subject to CABQ's NTMP Policy Manual

# NTMP PROCESS

## Steps & Procedure:

1. Residents or CABQ Staff identify potential NTMP candidate roads/neighborhoods
2. Data collection & evaluation
- 3. Public Input meeting #1**
4. Evaluation and narrowing/ranking of calming alternatives
5. Public Input meeting #2
6. Recommendation for preferred alternative(s)
7. Consideration for implementation



# RANCHO SERENO DATA & EVALUATION

## Topics:

- Proposed Emergency Routes
- Crashes
- NTMP Options

# DATA COLLECTION (Study Area)



# DATA COLLECTION (Proposed Emergency Routes)

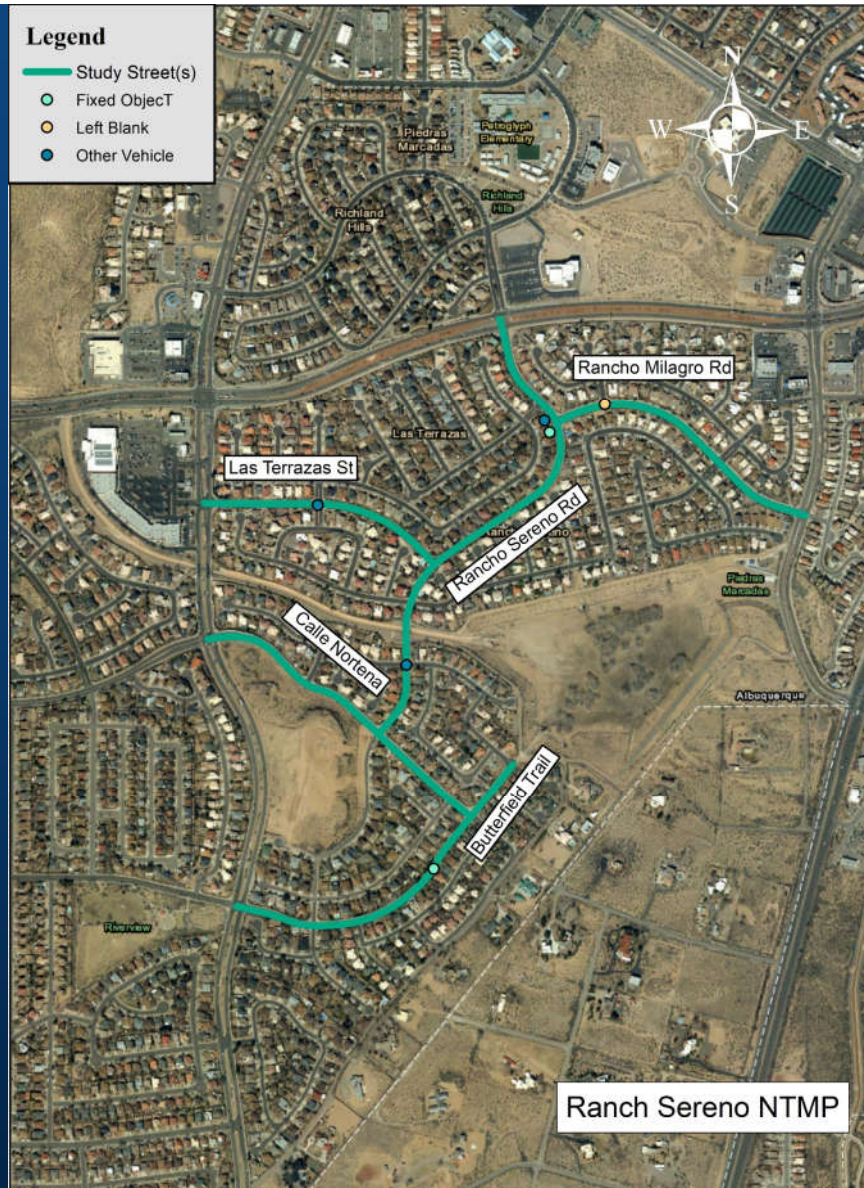




# DATA COLLECTION (Crashes by Type)

## Takeaways:

- Total of 6
- Majority are “Other Vehicle”
- High number of “Fixed Object”



# DATA COLLECTION (Crashes by Top Contributing Factor)

## Takeaways:

- No reported as excessive speed
- 1 reported as “Driver Inattention”



# DATA COLLECTION (Crashes by Severity)

## Takeaways:

- All “Property Damage Only”





# TRAFFIC CALMING OPTIONS

## **Overview**

- Chosen for applicability
- No particular order
- CABQ's NTMP Toolbox
- Public input on supported measures
- Survey

# TARGETED POLICE ENFORCEMENT

## Description

- Targeted police enforcement is the deployment of officers to specific streets or neighborhoods for a period of time to conduct radar speed enforcement and enforcement of traffic laws

## Advantages

- Highly effective in reducing speeding and other traffic law violations including stop sign running and illegal turns
- Can be deployed on short notice and for the specific hours for which problems have been identified
- Results are immediate
- Can reduce crashes related to speeding and other violations.
- Low cost if used temporarily
- Does not affect emergency vehicles
- Targets violators without affecting normal traffic
- Can promote public education regarding new devices or restrictions

## Disadvantages

- Effectiveness may be temporary, especially if the enforcement is deployed only once
- Enforcement is limited to APD availability



# RADAR SPEED TRAILER

## Description

- Radar speed trailers are mobile units placed on the side of the road that use radar to sense an oncoming vehicle's speed and display that speed back to the approaching driver

## Advantages

- Have been shown to be effective in prompting some speeding drivers to slow down
- Can be deployed on short notice and easily moved
- Results are immediate
- Deployment is low cost
- Does not slow emergency vehicles
- Alerts violators without affecting normal traffic

## Disadvantages

- Effectiveness may be temporary once removed
- Limited to APD availability
- Requires enough space to set up, and may reduce available parking
- Units are subject to vandalism
- Some drivers may try to register a high speed



# PERMANENT RADAR SPEED SIGN

## Description

- Post-mounted signs on side of road that use radar to sense and display speeds back to driver

## Advantages

- Visual reminder of drivers' speeds have been shown to prompt some speeding drivers to slow down
- Do not Slow down emergency vehicles
- Radar speed signs alert violators without affecting normal traffic

## Disadvantages

- Effectiveness may reduce over time as regular drivers become desensitized
- Some drivers may ignore the signs
- Some drivers may try to register a high speed
- Units and solar panels are subject to vandalism or theft



# CENTERLINE/EDGE LINE/LINE STRIPING

## Description

- Used to designate travel lanes, bicycle lanes , parking lanes and and/or stripping

## Advantages

- Striping is relatively easy
- Traffic striping does not slow emergency vehicles

## Disadvantages

- Regular maintenance is required, needs to be repainted about every 4 years.
- Removal of pre-existing traffic stripes leave unsightly marks on roadway.
- Effectiveness may be low





# SPEED REDUCTION MARKING

## Description

- A series of various shapes of transverse pavement markings set at progressively reduced spacing, intended to enchase the drivers between



## Advantages

- Markings are relatively easy and low-cost to install

## Disadvantages

- Long-term effectiveness is undocumented
- Regular maintenance is required



# SPEED LIMIT SIGNAGE

## Description

- Regulatory speed limit signs

## Advantages

- Signs provide a clear indication of speed limit
- Relatively easy and low-cost to install
- Speed limit signs do not slow emergency vehicles

## Disadvantages

- Signs alone do not guarantee responsible driving behavior
- Overuse of signs creates visual clutter that leads to a loss of effectiveness
- Speed limit signs below 25 MPH will not be respected
- Signs require regular maintenance



# RAISED PAVEMENT MARKERS

## Description

- Raised pavement markers (RPMs) are 4 inch diameter by 3/4 inch high nonreflective markers that are affixed to the pavement, providing tactile feedback to drivers

## Advantages

- Relatively easy and low cost to install
- RPMs do not slow emergency vehicles

## Disadvantages

- RPMs must be replaced as they become dislodged over time
- RPMs should not be used on any streets where the roads may be plowed after snowfall
- Residents may complain of noise from vehicles driving over RPMs



# RAISED CROSSWALK

## Description

- A raised pedestrian crosswalk is a speed table with crosswalk markings and signage to channelize pedestrians crossing a road

## Advantages

- Improved safety for pedestrians and vehicles
- Effective at slowing travel speed, but not to the extent of speed humps
- Possible traffic volume decreases at locations where cut-through traffic is a problem
- Typically preferred by EMS compared with speed humps

## Disadvantages

- Drainage impacts need to be considered in the design
- May increase noise and air pollution
- Textured materials are expensive, if used
- May inadvertently divert local trips to another route to avoid the calming measure

# NECKDOWNS AND BULBOUTS

## Description

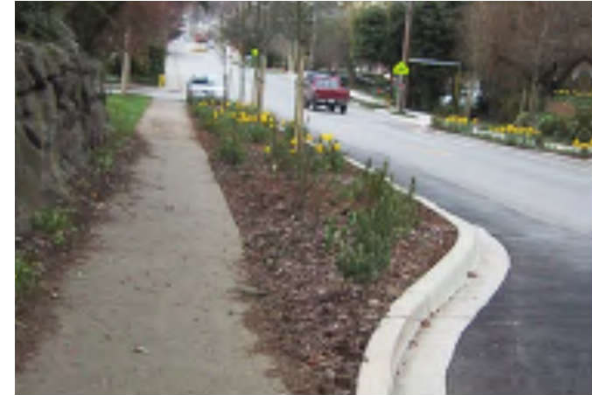
- Raised curb extensions at intersections that reduce the roadway width from curb to curb, increasing pedestrian comfort and safety

## Advantages

- Decreases vehicle speeds
- Reduces pedestrian crossing distance
- Clearly delineates areas of pedestrian activity

## Disadvantages

- May reduce on-street parking
- Complicates drainage design
- Reduces bicycle lane and/or side of road area used by bicyclists
- May slow right-turning emergency response vehicles



# LANE NARROWING WITH CENTER ISLAND/PEDESTRIAN REFUGE

## Description

- Construction of a center island on a wider street can serve to reduce the width of the travel lanes and to provide a pedestrian refuge area

## Advantages

- Decreases vehicle speeds
- Reduces pedestrian crossing distance
- Clearly delineates areas of pedestrian activity
- Opportunity for landscaping, visual enhancement, and neighborhood

## Disadvantages

- May reduce on-street parking
- Longer islands may impact driveway access and result in U-turns
- May impact snow removal operations



# ROAD NARROWING/DETACHED SIDEWALKS

## Description

- Sidewalk that is separated from a curb by grass, trees, landscaping, street lights, or other streetscape elements

## Advantages

- Increases pedestrian safety and reduces the width of pedestrian crossings
- Enhances streetscape
- Reduces vehicle speeds

## Disadvantages

- Landscaping maintenance may be required
- Detached sidewalks are not as effective as physical measures in slowing speeds
- Expensive

# TRAFFIC CIRCLE

## Description

- Traffic circles are raised islands, placed in intersections, around which traffic circulates. Yield signs can be used as traffic controls at the approaches of the traffic circle

## Advantages

- Effective at slowing travel speed
- Improves safety
- Provides increased access to main street from side street

## Disadvantages

- Slows emergency vehicles and can be difficult for large vehicles to circumnavigate
- May eliminate some on-street parking
- May require modifications to curb, gutter, and sidewalks





# ROUNDBABOUT

## Description

- Roundabouts require traffic to circulate counterclockwise around a center island. Unlike traffic circles, roundabouts are used on higher volume streets to allocate right-of-way among competing movements

## Advantages

- Enhanced safety compared to traffic signals or stop signs
- Minimize queuing at approaches
- Less expensive to operate than traffic signals
- Generally, aesthetically pleasing if well landscaped

## Disadvantages

- May be difficult for large vehicles to circumnavigate
- Must be designed so that the circulating lane does not encroach on the crosswalks
- May reduce on-street parking

Landscaping must be maintained by the residents or by the municipality



# CHICANE

## Description

- Chicanes are curb extensions that alternate from one side of the roadway to the other, forming s-shaped curves



## Advantages

- Offer visual traffic calming effect by reducing line of sight
- Can reduce pedestrian crossing distance
- Reduces travel speeds
- Negotiable by emergency vehicles
- Provide opportunities for streetscaping



## Disadvantages

- May divert traffic to adjacent roadways
- The effect on vehicle speeds is limited
- May require bicyclists to merge with vehicular traffic for a short distance
- May require removal of some on- street parking
- Curb realignment and landscaping can be costly, especially if there are drainage issues

# LATERAL SHIFT

## Description

- A lateral shift consists of curb extensions along straight streets that cause travel lanes to jog. It is like a chicane, however the roadway alignment only shifts once

## Advantages

- Community acceptance is generally higher
- Fewer maintenance issues than a comparable method
- Does not reduce traffic volumes unless design includes a lane reduction
- Negotiable by emergency vehicles

## Disadvantages

- Impacts snow maintenance
- May require additional effort to properly design
- May reduce on-street parking



# SPEED HUMPS

## Description

- Speed humps consist of raised pavement placed across the entire roadway width creating a vertical deflection to slow vehicles

## Advantages

- Decreases vehicle speeds
- Discourages cut through traffic
- Inexpensive and easy to construct

## Disadvantages

- • May cause speeding between humps
- • May divert traffic to an adjacent neighborhood street
- • May increase noise levels as vehicles decelerate and accelerate



# SPEED TABLE

## Description

- Speed tables are trapezoidal shaped speed humps with a flat section in the middle and ramps on the ends

## Advantages

- Effective at slowing travel speed
- Possible reduction in traffic volumes depending on available alternate routes
- Possible decrease in collisions
- In cases with crosswalk, increases pedestrian visibility and likelihood that driver yields to pedestrian
- Typically preferred by EMS compared with speed humps

## Disadvantages

- May inadvertently divert local drivers to another route to avoid the calming measure
- Textured materials can be expensive, if used
- May increase noise and air pollution
- May not be appropriate along bus or emergency routes
- Drainage impacts need to be considered in the design



# SPEED CUSHION

## Description

- Speed Cushions are rubber speed humps with a mild raise in elevation

## Advantages

- Effective at slowing travel speed
- Minimal construction impacts and can be removed easily
- Possible decrease in collisions
- In cases with crosswalk, increases pedestrian visibility and likelihood that driver yields to pedestrian
- Typically preferred by EMS compared with speed humps
- Can be constructed with breaks for EMS wheel spacings

## Disadvantages

- May inadvertently divert local drivers to another route to avoid the calming measure
- Susceptible to damage from snowplows
- May increase noise and air pollution



# SPEED KIDNEY

## Description

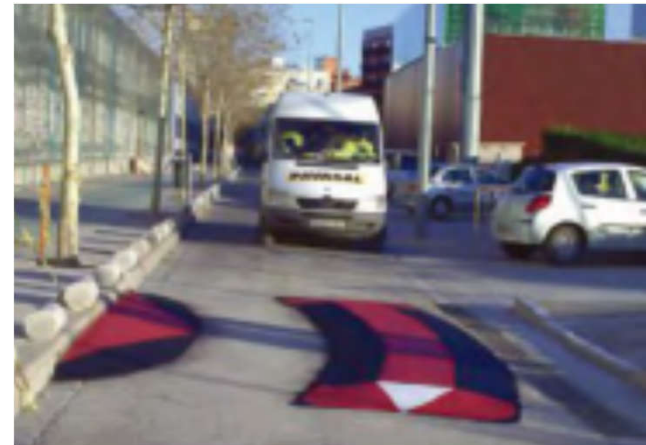
- Speed Kidneys are an arrangement of three speed lumps elongated with a curvilinear shape in the direction of traffic. The main speed lumps of the speed kidney are placed in the travel lane, while a complimentary speed lump is placed between the lanes

## Advantages

- Decreases vehicle speeds
- Discourages cut through traffic
- Inexpensive and easy to construct

## Disadvantages

- May cause speeding beyond the speed kidney
- May divert traffic to an adjacent neighborhood street
- May increase noise levels as vehicles decelerate and accelerate




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# PUBLIC INPUT

# QUESTIONS?



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# SURVEY AND OTHER INFORMATION

1. Survey posted to [cabq.gov/traffic](http://cabq.gov/traffic)
  1. <https://forms.office.com/r/HCqzTMVCq>
  2. QR Code to right
2. Presentation slides posted to [cabq.gov/traffic](http://cabq.gov/traffic)
3. Email any questions comments & concerns to: [NTMP@cabq.gov](mailto:NTMP@cabq.gov)
4. Deadline for survey and comment: October 12, 2021

