TRANSPORTATION

Preliminary Traffic Calming Design & Public Comment







How do we approach the traffic calming design?

- Consistent treatment placement along entire street
 - 400′ 700′ spacing of treatments
 - Close spacing is used for streets with a higher speed compliance issue
 - Target pedestrian heavy amenities to increase safety, such as access to the Mary Belle Pate Park and Carolina Pines park
- Targeted placement to fix a speed related crash issue
 - If a pattern of speed related crashes is identified, targeted treatment placement can eliminate that crash pattern
 - If no pattern is identified locationally, but multiple speed related crashes have occurred, consistent treatment spacing can help eliminate crashes along an entire street

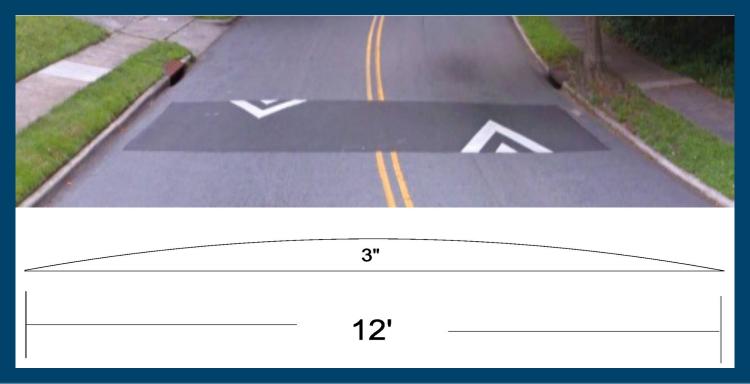


Treatment Limitations

- Your street's width will determine what types of treatments can be placed
 - Sierra Dr is approximately 31' wide
 - Based on this street width and roadway design, vertical traffic calming elements are appropriate and are being proposed as part of this project
 - The current speed limit is the statutory unposted 35 mph speed limit. An
 active request is working through the system to reduce the speed limit to a
 posted 25 mph speed limit



Speed Humps (vertical)





Speed Humps (vertical)

Pros

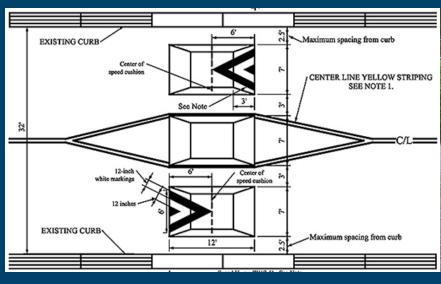
- Can be the most effective
- Fast installation time/Less impact during construction
- Versatile placement options based on compact footprint

<u>Cons</u>

- Does not contrast as much with existing roadway
- Impact to driving comfort
- Creates slight delay in emergency service's response times



Speed Cushions (vertical)





*Speed Cushion dimensions vary based on roadway dimensions



Speed Cushions (vertical)

Pros

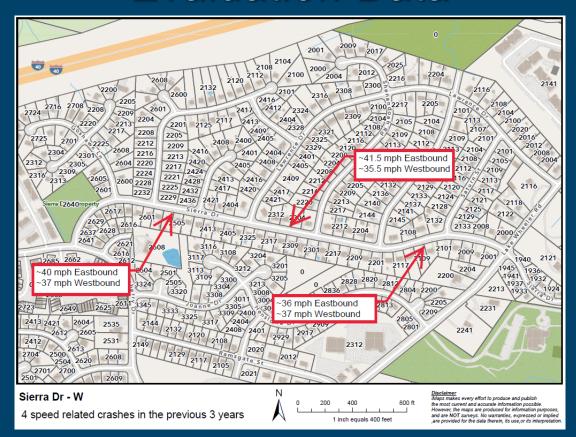
- Can be as effective as speed humps
- Relatively low impact installation timeline, but slightly slower than a standard hump as more labor is required
- Versatile placement options based on compact footprint
- Slightly faster emergency service's response times due to tire slits for larger vehicles

<u>Cons</u>

- Does not contrast as much with existing roadway
- Reduced driving comfort
- There is still some level of delay to emergency service's response times when compared with no treatment



Evaluation Data





Design Process

- Based on the speed progression and crash issue identified along Sierra Dr, we are proposing treatment spacing of approximately 400' – 500' intervals
- Similar speed related crashes occur at regular intervals along Sierra Dr between Mariner Cir and Saturn St. Focusing on driver speed reductions will be key in slowing driver speeds and eliminating the reoccurring speed related crashes identified



Project Goal

- The project will be deemed effective if 85% of drivers are going at or below the 25 mph speed limit and top driver speed is capped at around 5-7 mph over the speed limit
 - Based on your location, Pineview Dr, Merrie Rd, and Marcom St are the closest completed traffic calming project to you with this style of completed project. We encourage you to go drive these streets yourself to experience the final project.
- Once the project has been completed for approximately 6 months, an after-study will be performed to measure project effectiveness



Public Comment

- What are your thoughts on the proposed design?
 - Should we place more or less treatments along the street?
- Have we adequately addressed problem areas you see?
 - Should we place another traffic calming treatment in a targeted location?
- What are your thoughts on the mix of treatments being proposed?
- What other questions, comments, suggestions do you have?

Please direct all comments and questions to staff using the PublicInput portal for Sierra Dr - W. Staff will respond and we can have a neighborhood wide conversation.

