



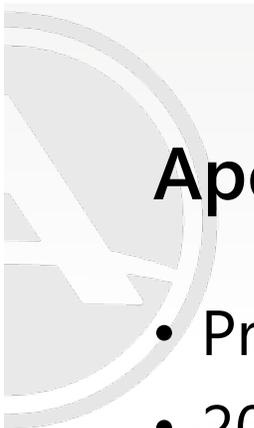
Traffic Calming Program Overview





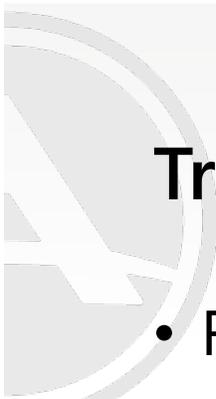
This presentation will help you

- Understand the history and purpose of traffic calming in Apex
 - Understand different types of approaches and devices used in traffic calming
 - Understand how to make a request for traffic calming to be installed (or removed)
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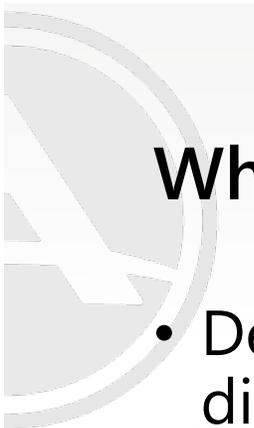
Apex Program History

- Pre-2005 Traffic calming policy administered by Apex Police
- 2005 Apex hires first traffic engineer; data still collected by Apex Police
- 2007 Traffic calming policy updated and incorporated into Unified Development Ordinance (UDO) Section 7.2.1.L
- 2015 Section 7.2.1.L updated through a public involvement process with Police and HOA groups
- 2017 Additional traffic engineer hired
- 2019 Traffic engineering staff begin conducting data collection with radar equipment
- 2023 Traffic safety engineer hired
- 2024 Section 7.2.1.L updated again to expand and improve the process after peer community research



Traffic Calming Program

- Requirements for traffic calming are provided in UDO Section 7.2.1.L
- Recommendations for new development are provided by the Technical Review Committee
- Studies for existing streets are conducted by the Traffic Safety Engineer
- Traffic calming proposals are subject to review to ensure it does not create unacceptable delay for emergency response
- If a study finds traffic calming is warranted, the Traffic Safety Engineer is responsible for developing the plan
- Requestor(s)/HOA is responsible for all required neighborhood outreach and approval before it can be presented to Town Council for approval



What is Traffic Calming?

- Devices and roadway design elements that attempt to reduce speed and/or discourage cut through traffic on residential streets
- Retrofit to existing street or built-in design for a proposed development plan
- Stop signs are not recommended as traffic calming devices and are subject to criteria in the Manual on Uniform Traffic Control Devices

Traffic Calming Measures

Non-deflective

- Speed enforcement equipment (radar signs & speed cameras)
- Warning signs
- Pavement markings/markers
- On-street parking & streetscape



Salem Street, Downtown Apex

Traffic Calming Measures

Vertical deflection

- Speed Humps
- Speed Cushions
- Speed Tables
- Raised Intersections
- Raised Crosswalks
- Rumble Strips



Speed Hump



Speed Cushions

Traffic Calming Measures

Horizontal deflection

- Traffic circles / roundabouts
- Curb extensions
- Chicanes
- Lateral shifts
- Bulb-outs
- Neckdowns/chokers
- Realignment of intersections
- Center islands/medians



Roundabout



Median Island

Traffic Calming Measures

Diversions

- Diagonal Diverters
- Turn/entry restrictions



Diverter Island at Timken Forest Dr and Goliath Ln



Development Plan Review Process for Proposed Streets

Proposed development plans may include traffic calming subject to the UDO, as recommended by the Technical Review Committee (TRC):

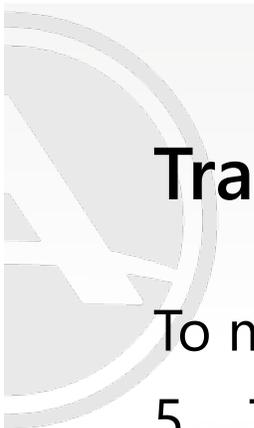
1. Developer/engineer submits a subdivision plan
 2. Transportation Planning and/or Traffic Engineering staff will review and provide recommendations where appropriate
 3. Residential streets over 1,000 feet long subject to traffic calming requirement
 4. Final approved construction plans include traffic calming
 5. Traffic calming is constructed by the developer of the property when installing the street infrastructure
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Traffic Calming Request Process for Existing Streets

Traffic calming requests for existing town-maintained residential & minor collector streets follow a defined process according to the UDO:

1. HOA or homeowner submits a request form to the Traffic Safety Engineer
2. If there has not been a study in 24 months and the street meets eligibility criteria, the Traffic Safety Engineer will conduct a study
3. Thresholds are 85th-percentile speed* at 32 mph or more and daily traffic at 800 vehicles or more per day
4. If the study shows traffic calming is warranted, guidance will be provided to the HOA/homeowner(s) on the next steps, which may include a plan requiring approval of the neighborhood

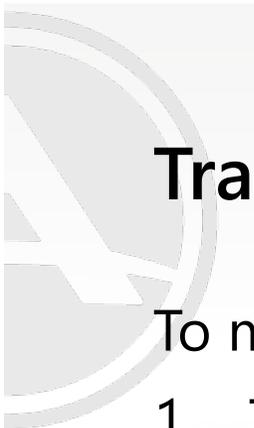
*85th-percentile speed is the speed at which 85% of vehicles are traveling under and 15% are traveling over



Traffic Calming Request Continued

To move forward with a proposed plan:

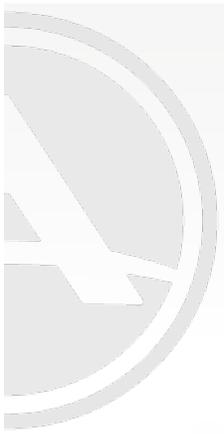
5. The HOA board must notify all homeowners, hold a meeting, and vote on the proposed plan
6. If there is not an active HOA, a petition signed by 70% of the affected homeowners in agreement with the plan is required; Apex will provide the petition boundary
7. All documentation (petition if no HOA, or proof of neighborhood notification, meeting minutes, and HOA approval) must be returned within six months of the plan being provided
8. Town Council approval is required to proceed with installation



Traffic Calming Device Removal Request

To move forward with removal of traffic calming devices:

1. The HOA board must notify all homeowners, hold a meeting, and vote on the proposed plan to remove, then forward all documentation to the Traffic Safety Engineer
2. If there is not an active HOA, a petition signed by 70% of the affected homeowners in agreement with removal is required; Apex will provide the petition boundary
3. Town Council approval is required to proceed with removal



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