

SECTION 5100 – TRAFFIC ENGINEERING

5104.2 Residential Traffic Management (Traffic Calming)

ACHD shall cooperate with residents, municipalities, and neighborhood associations to manage residential traffic and mitigate the negative effects of excessive traffic speed and/or volume on residential streets.

5104.2.1 Eligibility

The following criteria shall be met for a street to be considered eligible for traffic calming:

- Residential streets greater than 750' in length with a posted speed limit of 30 mph or less and classified as a local or collector street (as identified in the ACHD Master Street Map)
- Minimum average daily traffic (ADT), as measured by a weekday count of at least three days duration, shall be at least 400 vehicles.
- Maximum average daily traffic (ADT), as measured by a weekday count of at least three days duration, shall be no more than 4000 vehicles.

Streets that do meet the eligibility criteria may be considered for traffic calming through a more detailed planning study, or capital project, as determined by ACHD Traffic Engineering staff.

5104.2.2 Traffic Safety Investigation

Prior to implementing traffic calming, a traffic safety investigation consistent with procedures outlined in Sec. 5104.1 shall be completed prior to implementing traffic calming. At least three (3) years are required between investigations. Traffic safety investigations may recur less than three (3) years after completion of a prior investigation if street conditions have substantially changed (e.g., new development, land use changes, new street connection) or if approved by the ACHD Traffic Engineering Supervisor.

5104.2.3 Peak Hour Traffic and Speed Thresholds for Local Residential Roads

Based on the results of the Traffic Safety Investigation one of the following thresholds shall be met for a street to be considered for traffic calming:

1. Peak hour traffic greater than 100 vehicles.
2. 15% of vehicles are traveling at or exceeding 28 mph.
3. 5% of vehicles are traveling at or exceeding 32 mph.

5104.2.4 Peak Hour Traffic and Speed Thresholds for Collector Roads

Based on the results of the Traffic Safety Investigation one of the following thresholds shall be met for a street to be considered for traffic calming:

1. Peak hour traffic greater than 300 vehicles where no direct lot access is permitted and 150 vehicles where direct lot access exists.
2. 15% of vehicles are traveling at or exceeding 33 mph.
3. 5% of vehicles are traveling at or exceeding 36 mph. .

As determined by the Traffic Engineering Supervisor the speed thresholds for Local Residential Roads may be used for Collector Roads where direct lot access exists or as supported by the land use context.

5104.2.5 Neighborhood Survey

If the eligibility criteria and thresholds for traffic calming are satisfied, ACHD shall facilitate a neighborhood survey.

- As part of the survey process support from 60% of affected households (property residents) shall be verified by ACHD Traffic Engineering.
- For local streets the survey area will include households directly abutting the street under consideration for traffic calming.
- For collector streets the survey area will include households directly abutting the street under consideration for traffic calming and households abutting adjacent local streets that depend upon the collector for major street access.

During the neighborhood survey process input from emergency services (police, fire, EMT, etc.) should be obtained by ACHD. If the roadway is a primary response route, ACHD may determine the street is not eligible for calming.

5104.2.6 Procedure for Traffic Calming Installation

If the eligibility criteria and thresholds for traffic calming are satisfied, and the survey process is completed with support as outlined in section 5104.2.5, ACHD shall perform the design and determine the timing of traffic calming installation.

ACHD may consider installation of the following traffic calming features, including but not limited to:

- Vertical Deflection (Speed Humps and Tables);
- Horizontal Shifts (Medians, Chokers, Lane Narrowing, Chicanes);
- Intersection Treatments (Roundabouts, Mini Roundabouts, Traffic Circles, Diverters, Bulbouts, Raised Intersections, and Raised Crossings);
- Vertical Elements (Street Trees or landscaping only for the purpose of traffic calming may be considered where there is an agreement for others to irrigate and maintain);
- Temporary Materials may be used as approved by ACHD Traffic Engineering to evaluate potential treatments prior to permanent installation.