

STATION 2 Review of Pedestrian Safety Treatments & Programs



Guiding Documents: Local Level

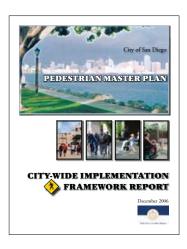


The following list of documents set the policies and guidelines that provide for pedestrian safety at the local level:

Council Policies

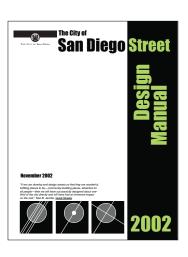
Council Policy 200-07 (Pedestrian Crossing)
Council Policy 200-06 (Traffic Signals)
Council Policy 200-08 (Stop Signs)
Council Policy 800-01 (Pedestrian Separation Structure)
R-251799 (School Pedestrian Safety Policies and Warrants)

Plans and Manuals



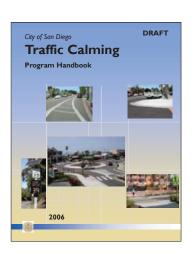
City of San Diego Pedestrian Master Plan

- Guides how the City plans and implements pedestrian improvement projects
- Identifies and prioritizes proposed pedestrian projects



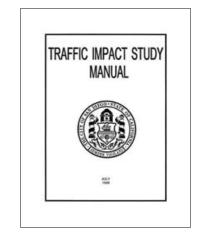
City of San Diego Street Design Manual

- Provides information and guidance for the design of public right-of-way
- Pedestrian reference topics include street design, intersection design, sight distance, pedestrian crossings, sidewalks for overpasses, and pedestrian refuge islands



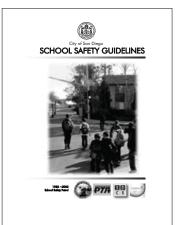
City of San Diego Traffic Calming Handbook

- Intended to improve neighborhood safety through roadway improvement strategies
- Provides a tool for residents, City staff and other interested parties to use when developing effective traffic calming plans



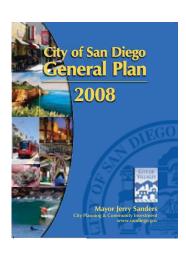
City of San Diego Traffic Impact Study Manual

 Provides guidance on how to prepare traffic impact studies in San Diego



City of San Diego School Safety Guidelines

 Groups all school-related policies into one document for better coordination between affected departments and agencies



City of San Diego General Plan Mobility Element

- Plans for the City's transportation goals and needs
- Identifies the proposed transportation network and strategies, designed to meet future travel needs



Guiding Documents: State and National Level

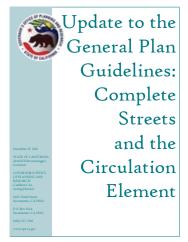


The following is a list of relevant state and national policies and guidelines that will be considered in preparing the City's Pedestrian Safety Study:

California Vehicle Codes (CVC)

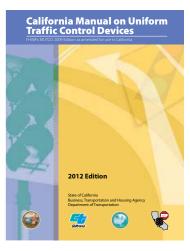
Section 275 (Crosswalk)
Section 467 (Pedestrians)
Sections 21949-21971 (Pedestrian's Rights and Duties)
Section 22500 (Prohibited Stopping Standing or Parking)
Section 22526 (Entering Intersection Rail Crossing or Marked Crosswalk)

California Statwide Documents



Update to the General Plan Guidelines: Complete Streets and the Circulation Element

- Assists local municipalities in meeting AB 1358 requirements and integrating multimodal transportation policies
- Provides guidance on circulation element goals, policies, data collection, and implementation measures



California Manual on Uniform Traffic Control Devices (2012)

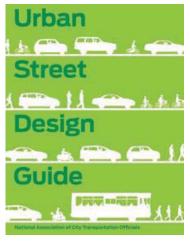
- Sets uniform standards and specifications for all official traffic control devices in California
- Amends the national standards set in Federal Highway Administration's 2009 MUTCD for use in California

National Level References



Pedestrian Safety Guide and Countermeasure Selection System - Federal Highway Administration (FHWA)

- Resource providing practitioners with up to date information for improving the safety and mobility of pedestrians
- Provides countermeasure examples based on crash types and performance objectives



Urban Street Design Guide -National Association of City Transportation Officials (2013)

- Design guide emphasizing urban streets as public places that prioritize safe driving, transit, walking, biking, and public activity
- Provides street design blueprints and case studies of how to successfully implement best practices



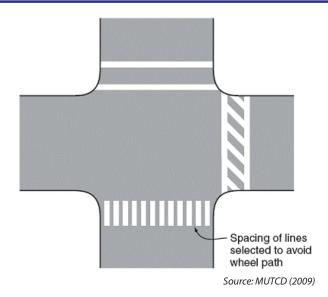
Pedestrian Safety Treatments & Programs





Signs and Markings

- Signs and markings can alert drivers to expect pedestrians
- Overuse of signs can create visual clutter



Marked Pedestrian Crossings

- Marked pedestrian crossings indicate preferred crossing locations for pedestrians
- Marked crosswalks designate areas for motorists to yield to pedestrians



Pedestrian Signals

- Provide guidance to pedestrians when it is safe to cross
- Can give pedestrians ability to stop traffic



No Parking Zones

- Parked vehicles can limit visibility of pedestrians
- No Parking Zones improve pedestrian and motorist sightlines



Pedestrian Safety Treatments & Programs





Pedestrian Hybrid Beacon (PHB)

- Pedestrian-activated beacon for unsignalized crossings
- Beacon remains dark until activated by pedestrian
- Used to warn and control traffic to assist pedestrians in crossing a street



Rectangular Rapid Flash Beacons (RRFB)

- Pedestrian-activated flashing beacons indicate to drivers a pedestrian is crossing
- Enhance pedestrian safety at unsignalized and mid-block crossings by increasing driver awareness of pedestrians



Leading Pedestrian Interval (LPI)

- LPI gives pedestrians the WALK signal 3-7 seconds before driver's signal turn green
- LPI allows pedestrians to establish a presence in the crosswalk before drivers can start turning



Source: SF.StreetsBlog.org

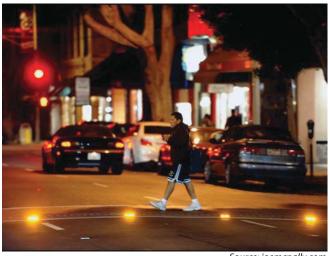
Raised Pedestrian Crossing

- Help reduce vehicle speeds and enhance the crosswalk
- Crosswalks are elevated to sidewalk level
- Cars are forced to slow for ramps on each vehicle approach leading to the crosswalk



Pedestrian Safety Treatments & Programs





In-Roadway Warning Lights

- Lights installed in the roadway to alert drivers of a crosswalk
- Can be used at school crossings, marked crosswalks, marked mid-block crossings, and other pedestrian crossings
- Lights flash to increase awareness of pedestrians



Pedestrian Refuge

- Protected section of pavement where pedestrians can stop and wait for traffic to stop while crossing the road
- Provides a dedicated space for pedestrians on the roadway



Curb Extensions/Bulb Outs

- Reduces the crossing distance for pedestrians
- Narrows the roadway, helping to slow traffic speeds



Pedestrian Scramble/Diagonal Crossing

• Pedestrian crossing that stops all directions of traffic and allows pedestrians to cross an intersection in all directions, including diagonally, at the same time