## On-Street Bicycle Facility Design Treatments

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<td>E. Traffic Control Devices</td>
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<td>F. Bicycle accommodations related to traffic calming</td>
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<td>2. Bicycle accommodations near turn lanes</td>
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### Sources:


Note: Pages numbers refer to pertinent sections of design guidelines.
### Section 5.2.1: Path Widening at Intersections

- Barriers for non-motorized users
- Barriers on shoulders
- Shared use path chicanes
- Advance stop or yield lines
- Design speed
- Grade of shared use path
- Transition zone
- Horizontal alignment
- Reflectors for shared use path
- Lighting
- User comfort
- Handrail requirements

### Section 5.4.1: Pedestrian Signal Heads

- Pedestrian Hybrid Beacon (HAWK Signal)
- Crossing timing
- Signal actuation for shared use path users
- Sign placement next to paths
- Pavement Markings on Shared Use Path
- Curb ramps and aprons
- Shoulders on path
- Minimum curve radius
- Clear zone adjacent to path
- Advance stop or yield lines
- Surface structure
- Sidepath design considerations
- Barriers or guardrails

### Section 2.7: Equestrian Considerations

- Bridges and underpasses
- Handrail requirements for animal enclosures
- Animal enclosures
- Transitional material
- Equestrian considerations

### Section C.15.2: Access to Sidewalks

- Access ramps to sidewalk
- Access ramps to at-grade crossings

### Section C.12.3: Access to Buildings

- Access ramps to buildings
- Sidewalks

### Section 9B.02: Pedestrian Crossings

- Rectangular Rapid-Flashing Beacon (RRFB)
- 500 lb. rated RRFB
- 350 lb. rated RRFB
- 250 lb. rated RRFB
- 150 lb. rated RRFB

### Section 4F.02: Pedestrian Hybrid Beacon (HAWK Signal)

- Clear sight triangles for shared use path
- Stopping sight distance for shared use path
- Rail and guardrail requirements
- Roadside Design Guide (2011)
- Streets (2012)
- Protected Bike Lane Planning and Recommended Design Guidelines (2011)
- Notes: Page numbers refer to printed version of design guideline.

### Section 5.3.6: Separated Bicycle and Pedestrian Paths

- Barrier or guardrail requirements
- Roadside Design Guide (2011)
- Streets (2012)
- Protected Bike Lane Planning and Recommended Design Guidelines (2011)
- Notes: Page numbers refer to printed version of design guideline.
### Pedestrian Facility Design Treatments

#### AASHTO Policy on Geometric Design of Highways and Streets (2011)
- **Pedestrian accommodations at intersections**
- **Pavement markings**
- **Raised crossings**
- **Pedestrian Hybrid Beacon (HAWK Signal)**
- **Skewed Intersections**
- **Curb ramps Section 4.17.3 Section 3.3.5**
- **Siting bus stops Section 4.19**
- **Pedestrian signalheads**
- **Wayfinding**
- **Shared streets**

#### NACTO Bicycle Facilities Development of Pedestrian Facilities (2011)
- **Advance stop lines at traffic signals**
- **Advance pedestrian intervals**
- **Travel lane width**
- **Pedestrian detection**
- **Chicanes**
- **Traffic circles**
- **Transit stop design**
- **Pedestrian signal heads**

#### FHWA A Policy on Geometric Design of Highways and Streets (2011)
- **Curb extensions (bulb outs)**
- **Parking Requirements**
- **Sidewalks and crosswalks**
- **Traffic signs and signals**
- **Sidewalks and crosswalks**
- **Stairs**

- **Curb ramps**
- **Curb extensions**
- **Pedestrian Signal Heads**
- **Pedestrian Hybrid Beacon (HAWK Signal)**
- **Sidewalks and crosswalks**

- **Advance stop lines at traffic signals**
- **Advance pedestrian intervals**
- **Travel lane width**
- **Pedestrian detection**
- **Chicanes**
- **Traffic circles**
- **Transit stop design**
- **Pedestrian signal heads**

#### N/A Draft Guidelines:
- **Curb ramps**
- **Curb extensions**
- **Pedestrian Signal Heads**
- **Pedestrian Hybrid Beacon (HAWK Signal)**
- **Sidewalks and crosswalks**

#### N/A National Bicycle and Pedestrian Facility Design Guidelines (2017)
- **Advance stop lines at traffic signals**
- **Advance pedestrian intervals**
- **Travel lane width**
- **Pedestrian detection**
- **Chicanes**
- **Traffic circles**
- **Transit stop design**
- **Pedestrian signal heads**

#### N/A American with Disabilities Act of 1990
- **Curb ramps**
- **Curb extensions**
- **Pedestrian Signal Heads**
- **Pedestrian Hybrid Beacon (HAWK Signal)**
- **Sidewalks and crosswalks**

#### N/A National Access Board
- **Curb ramps**
- **Curb extensions**
- **Pedestrian Signal Heads**
- **Pedestrian Hybrid Beacon (HAWK Signal)**
- **Sidewalks and crosswalks**

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**Note:** Page numbers refer to printed version of design guideline.
<table>
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| B.1 | Crossing distance considerations | NA | N/A | N/A | N/A | N/A | N/A | NA | N/A | N/A |
| B.2 | Sign and pavement markings | NA | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| B.3 | Traffic lighting | NA | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Note: Page numbers refer to printed version of design guidelines.
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<td>School Site Planning, Design and Transportation</td>
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