Fort Collins

Neighborhood Greenways These low speed and volume streets prioritize bicyclist and pedestrian travel and provide safe crossings of large arterial roads. A number of roadway elements combine along the street to create this traffic-calmed environment. Stop



Half Traffic Diverter

Comfort

Chicanes

- Low-stress LTS 1 facility
- Gives priority to bicyclists in mixed traffic
- Reduces stopping at local streets
 - Reduces delay at arterial crossings
 - Provides alternative to arterial routes





Signs



Intersection Neckdown

Safety

* (

• 2 to 8 times lower bicyclist crash rate than parallel arterials

• Safe arterial crossings provided

• Traffic speeds reduced to 20 mph or less





Equity

- Attracts ages 8 to 80
- Woman prefer 3 times over arterials
- Improves neighborhood livability
 - Creates opportunities for green infrastructure

Toole



Neighborhood Greenway Elements Combing a selection of these choices creates a calm, low-traffic environment on a neighborhood greenway that is more comfortable for through bicycle traffic and for neighboring residents.

Low Volume



Full Traffic Diverter



Half Traffic Diverter



Skinny Streets







Slow Speeds

Neckdown and Speed Hump

Mini Traffic Circle

Neckdown Intersection

Green Street



Landscaped Chicanes



Rain Garden Neckdown



Community Composting/Planting Strip Gardens





Median Crossings



Pedestrian and Bicycle Only Signal



Raised Crosswalks









Branding and Wayfinding



Pavement Markings



Street Art



City of Fort Collins

Bike Lanes Bike lanes provide a painted separation between bicyclists and other road users. Fort Collins already has many miles of bike lanes throughout the city. Nearly 50% of arterial roads have bike lanes today, ranging from five to eight feet wide.







Door zone bike lane Some bike lanes are located next to automobile parking which can put bicyclists in the position of potentially hitting an open car door.

Arterial bike lane Bike lanes on high-speed, high-volume roads are more stressful than those on quiet streets and may deter many riders from taking that route.

Buffered bike lane Painted buffers provide a horizontal barrier between bicyclists and adjacent traffic, lowering the stress level of these facilities.

• LTS rating of bike lanes varies with traffic speed and volume, bike lane width and the presence of parking • Separates bicyclists from most traffic • Can be blocked by

Safet

• 50% fewer bicyclist injuries compared to streets without bike facilities

• Minimizes speed differential

• Shown to reduce sidewalk bicycling 57 - 84%

Comfort

double-parked cars



Equity

• Ridership varies with stress conditions

 "Interested but concerned" prefers continous lanes through intersections

 Women prefer bike lanes over shared lanes





Protected Bike Lanes These bike lanes are separated from both automobile and pedestrian traffic. They are also known as "cycle tracks" or "separated bike lanes."



Sidewalk Level, One-Way Landscape separated with differentiating materials



Midb



Dutch Intersection Manages conflicts between modes



Street Level, One-Way Parking and flex post separated



Two-Stage Queue Box Waiting space for left turns



Street Level, One-Way Planter separated



Colored driveway crossing Alerts users of conflicts





Street Level, One-Way Parking separated



Bike signals **Separates conflicts**



City of Fort Collins

Why Protected Bike Lanes? These separated facilities provide a low-stress riding environment that attracts a wide variety of riders of all ages and abilities.





Boulder

Comfort

- Low-stress LTS 1 facility
- Path-like experience
- Separates bicyclists from other traffic



Washington, DC

Bicycle Plan Fort Collins

Safety

• 89% fewer bicyclist injuries compared to streets without bike facilities

 Shown to reduce sidewalk riding 57 to 84%

Minimizes intersection
exposure to traffic

• Eliminates obstructions in bike lane



New York City

Equity

Attracts riders
ages 8 to 80

• Women, children, and elderly prefer over bicycle lanes







Toronto





Bicycle Intersections Design elements that manage interactions between bicycles and other vehicles can help make intersections more logical and comfortable for all modes.



Eliminates bicyclists exposure to merging traffic maximizing comfort and safety. Conflicts are minimized by ensuring motorists turning speeds are < 15 mph, or eliminated with a bicycle signal. Through bicyclists' delay may be incurred.

Pocket Bike Lane with Short Right Turn Lane

Short right turn lane minimizes bicyclists' exposure to merging traffic and slows merging motorists. Ideally, turning motorists speeds are < 15 mph.

Pocket Bike Lane with Long Right Turn Lane

Long right turn lanes increase bicyclists' exposure to merging traffic which may cross the bike lane at speeds >15 mph.

Dropping bike lanes to add right turn lanes maximizes bicyclists' exposure to merging traffic which may cross bike lane at speeds >15 mph.

Additional Options for Managing Conflicts



Shared Right Turn Lane Alerts drivers to through bicycle movement



Bicycle Box Gives bicyclists a head start





Conflict Zone Markings Highlights bicyclist's space where vehicles merge



Two-Stage Turn Queue Box Makes left turns across wide roads easier

