

## SEPARATED BICYCLE LANES



Cambridge, MA

- A bike lane physically separated from motor vehicle traffic by parking, landscaping, curb, or other vertical element.
- Separate sidewalk is provided for pedestrians.
- May be at sidewalk level, street level, or intermediate height.
- May be one-way or two-way configuration.
- Can provide a low-stress bicycling environment along busier corridors (greater than 6,000 vehicles per day or speeds above 30 mph).



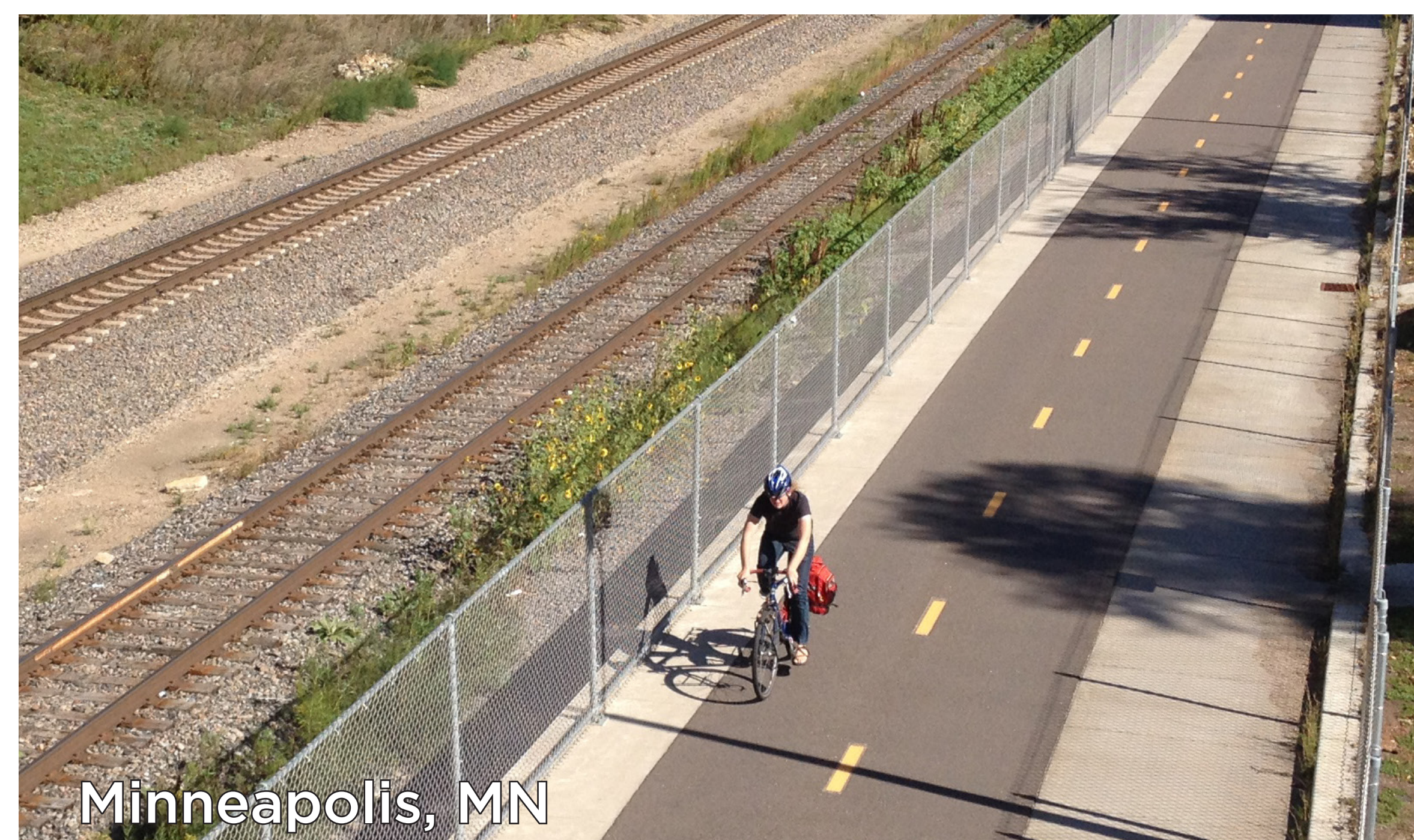
Saint Paul, MN

## SHARED-USE PATHS



West Fargo, ND

- A bicycle facility physically separated from traffic, but intended for shared use by a variety of users, including pedestrians, bicyclists, and joggers.
- Can have separate pedestrian space or jogging surface.
- Major road crossings may have signals, crossing beacons, refuge islands, or bridges and underpasses.
- Can provide a low-stress bicycling environment along busier corridors (greater than 6,000 vehicles per day or speeds above 30 mph).
- Can provide connections along non-roadway corridors (e.g. rivers and railways).



Minneapolis, MN

## BUFFERED BICYCLE LANES



Seattle, WA

- Typically used on streets with moderate traffic volumes (1,500 to 6,000 vehicles per day) and low speeds (20 to 30 mph typical speeds).
- Typically used on streets with excess width but without high enough vehicle speeds or volumes to warrant physical separation.
- Painted buffer increases lateral separation between bicyclists and hazards such as passing motor vehicles and car doors.



Cincinnati, OH

## STANDARD BICYCLE LANES



Boston, MA

- An on-street bicycle facility designated by striping, signing, and pavement markings.
- Bike lanes are separated from travel lanes by solid white lines.
- Reduces the need for people riding bicycles and people driving cars to negotiate for space on the roadway.
- Typically used on streets with moderate traffic volumes (1,500 to 6,000 vehicles per day) and low speeds (20 to 30 mph typical speeds).



Seattle, WA

## ADVISORY BICYCLE LANES



Minneapolis, MN

- Bicycle lane designed to permit motor vehicles to enter while passing oncoming traffic.
- Typically used on streets with moderately low volumes (1,500 to 3,000 vehicles per day) and low speeds (20 to 25 mph typical speeds), but are too busy to be a bike boulevard.
- No centerline striping—motor vehicles drive outside of bike lane except when passing oncoming vehicles.
- Typically used where widths are not sufficient for standard bicycle lanes.



Minneapolis, MN

## BICYCLE BOULEVARDS



Minneapolis, MN

- A street designated and designed to give bicyclists priority.
- Used on low-traffic side streets (fewer than 1,500 vehicles per day), usually with traffic calming to reduce speeds to between 10 and 25 mph.
- No centerline striping.
- Usually in residential neighborhoods.
- Usually no impact to parking.
- Stop signs may be moved to cross streets.
- Major road crossings may have signals, crossing beacons, or refuge islands.



Portland, OR

**SHARED LANE MARKINGS**



Fargo, ND

- Shared lane markings are placed within the motor vehicle travel lane to indicate where bicyclists should ride.
- Assist with rider positioning away from roadway edge or parked cars.
- Recommended only to fill short gaps in low-speed contexts, where drivers and bicyclists can safely and reasonably travel at the same speed.
- Provides a low-cost option in constrained situations where bicyclists and drivers must take turns using the same lane.



Washington, DC

**SHOULDERS**



Washington State

- Used along rural highways with speeds greater than 45 mph and more than 3,000 vehicles per day, to provide a separate space for bicyclists.
- Shoulders can be differentiated with contrasting pavement materials and/or surface coloring, wide solid white edge line markings, buffered white edge lines, and/or rumble strips.
- At intersections, shoulders may transition to standard or separated bicycle lanes. Shared use paths may also be used instead of shoulders, where destinations, bicycle traffic, motor vehicle speeds, and/or truck traffic become higher than average.
- As bicycle traffic increases on rural highways, there is a greater need for bicycle route signage to increase visibility of the bicycle facility.



USA

**GREEN COLORED  
PAVEMENT**



Portland, OR

- Used to draw attention to bicycle facilities, especially where motor vehicle traffic must yield to bicycle traffic before crossing.
- Can help raise awareness of conflict points at intersections, driveways, and bus stops.
- Typically applied using ground-in thermoplastic where regularly crossed by motor vehicle traffic.



Saint Paul, MN

**BICYCLE SIGNALS**



Portland, OR

- Used to provide bicyclists a protected phase (conflicting motor vehicle movements stopped by red signals), leading interval (head start for bicyclists), and other situations where a separate signal indication is needed for bicycle movements.
- Can improve signal compliance.
- Provide an option at complex intersections where bicyclists must cross diagonally or where conflicts with turning motor vehicles cannot be adequately mitigated through other means.



Portland, OR

**CROSSING BEACONS**



Minneapolis, MN

- Flashing lights may be mounted on crosswalk sign pedestal, on mast arm above roadway, within border of crosswalk sign, and/or embedded in the roadway.
- Warning beacons used at crossings should be activated by push button and/or other detection so lights are only activated when people are crossing.
- Hybrid beacons (known as HAWK signals, pictured below), which display solid red signal indications to drivers when activated, are recommended over warning beacons, which flash yellow, for crossing higher-speed, multi-lane streets.



Portland, OR