

## **Bicycle Facility Design Guidelines**

### **Acknowledgements**

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## **Bicycle Facility Design Guidelines**

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## **Bicycle Facility Design Guidelines**

### **Acknowledgements**

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# Bicycle Facility Design Guidelines

## Acknowledgements

<b>Photos</b>
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**Title**

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Cover Page	<u>Top Photo</u> —Stone Arch Bridge and Minneapolis Riverfront (Minneapolis, MN)	Gayle Litchy (City of Minneapolis)
	<u>Bottom Photo</u> —West River Parkway from the Guthrie Theatre (Minneapolis, MN)	Gayle Litchy (City of Minneapolis)

**Chapter 1—Introduction**

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 1	<u>Upper Right</u> —Bike Box along 1st Avenue North (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Right</u> —Bicycle Parking at Lucy Laney School (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —10th Street Bike Lane (Minneapolis, MN)	David Peterson (City of Minneapolis)
Page 2	<u>Upper Right</u> —West River Parkway Trail at I-35W (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 3	<u>Upper Right</u> —Midtown Greenway (Minneapolis, MN)	David Peterson (City of Minneapolis)
Page 4	<u>Upper Right</u> —LRT Trail at Dusk (Minneapolis, MN)	David Peterson (City of Minneapolis)
	<u>Middle Right</u> —LRT Trail at Dusk (Minneapolis, MN)	David Peterson (City of Minneapolis)

**Chapter 2—Design Factors**

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 6	<u>Upper Right</u> —Father and Daughter at Stone Arch Bridge (Minneapolis, MN)	Gayle Litchy (City of Minneapolis)
Page 7	<u>Upper Left</u> —Winter Bicyclist on LRT Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Samantha Whiteman and Ahn Nguyen on bikes (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Evan Sventek at Lake Harriet Community School (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 8	<u>Upper Right</u> —Nicollet Mall (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 9	<u>Upper Right</u> —Rachel Speck biking on a sidewalk (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 10	<u>Upper Right</u> —Bicycle Boulevard along Fillmore Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 2—Design Factors

Page Number	Photo Description/Location	Photo Taken By
Page 11	<u>Upper Right</u> —Door in Bike Lane along Beacon Street (Brookline, MA)	Peter Furth (Boston, MA)
Page 12	<u>Upper Right</u> —Bicycle along 4th Street South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle at Downtown Library (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 13	<u>Upper Right</u> —Looking West from Bridge #9 (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Godfrey Parkway at 46th Street Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle Lane at Intersection (Chicago, Illinois)	Shaun Murphy (City of Minneapolis)
Page 14	<u>Upper Right</u> —Trail along Minnehaha Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle passing lane (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicyclists on the Nicollet Mall (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 15	<u>Middle Right</u> —NTP Open House at City Hall (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 18	<u>Upper Right</u> —Powderhorn Park (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —West River Parkway at 22nd Ave N (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Midtown Greenway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 19	<u>Upper Right</u> —Midtown Greenway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd on Right</u> —Pedestrian Bridge in NE Minneapolis (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd on Right</u> —Wall Street (New York City, NY)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Bike Racks on a Route 18 bus (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 20	<u>Upper Right</u> —Bicycle in front of City Hall (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Minnesota State Capitol (St. Paul, MN)	Greg Reese (City of St. Paul)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 2—Design Factors

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 20	<u>Bottom Right</u> —Loader at Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 21	<u>Upper Left</u> —On-Street Bike Parking (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Freewheel Bicycle Center (Minneapolis, MN)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Left</u> —Wayfinding Plaque (Luxembourg)	Mark Skoine (DERO Bike Racks)
	<u>Middle Right</u> —Bike Station (Singapore)	Greg Bluem (Minnesota)
	<u>Bottom Left</u> —Bike Share Station Barcelona, Spain	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Right</u> —Bike Share Station Tulsa, Oklahoma	Rolf Scholtz (DERO Bike Racks)

#### Chapter 3—Off Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 24	<u>Upper Right</u> —Martin Sabo Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Top</u> —Loring Bikeway (Minneapolis, MN)	Gayle Litchy (City of Minneapolis)
	<u>3rd From Top</u> —Bridge #9 (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>4th From Top</u> —I-394 spiral bridge near Penn Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Stone Arch Bridge (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	Page 25	<u>Upper Photo</u> —Bike/Pedestrian Tunnel at I-35W (Minneapolis, MN)
<u>Lower Left</u> —Tunnel Under Birch Street (Lino Lakes, MN)		Donald Pflaum (City of Minneapolis)
<u>Middle Bottom</u> —Big Rivers Regional Trail (Mendota Heights, MN)		Donald Pflaum (City of Minneapolis)
Page 26	<u>Upper Right</u> —Wide Trail Underpass (Davis, California)	Photo from UC Davis website (Davis, California)
	<u>Middle Left</u> —Galloping Goose Trail (Vancouver, BC)	John Luton (City of Victoria, BC)
	<u>Middle Right</u> —Roadway underpass (Deventer, Netherlands)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 26	<u>Bottom Left</u> —Narrow Trail Underpass (Adelaide, Australia)	Jennifer Ringold (MPRB)
	<u>Bottom</u> —Trail Ramp and Underpass (Wroclaw, Poland)	Rolf Scholtz (Minneapolis, MN)
Page 27	<u>Upper Right</u> —Off Road Cycling Trail Signage; Wirth Park (Golden Valley, MN)	Donald Pflaum (City of Minneapolis)
Page 28	<u>Upper Right</u> —Fridley Water Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —LRT Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Center</u> —Humboldt Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> — SW LRT Trail St. Louis Park, MN	Shaun Murphy (City of Minneapolis)
Page 29	<u>Upper Right</u> —Victory Parkway Trail and Kiosk (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Lake Calhoun Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —West River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Cedar Lake Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 30	<u>Upper Right</u> —Nicollet Island Unpaved Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Top</u> —SW LRT Trail at Shady Oak Lake (Minnetonka, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Top</u> —Unpaved Trail at Boom Island (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —SW LRT Trail (Hopkins, MN)	Shaun Murphy (City of Minneapolis)
Page 31	<u>Upper Photo</u> —Sculpture Garden at Walker Art Center (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Collage (Upper Left)</u> —Drinking Fountain with Pet Fountain at Coit Tower (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Collage (Upper Middle )</u> —Kiosk at Minneapolis Diagonal Trail (Minneapolis, MN)	Stephanie Malmberg (City of Minneapolis)
	<u>Collage (Upper Right)</u> —Kiosk along Midtown Greenway at 31st/Chowen (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 31	<u>Collage (2nd from Top left)</u> —Fence at Loring Bikeway (Minneapolis, MN)	Hassan Nur (City of Minneapolis)
	<u>Collage (2nd from Top middle)</u> —Wayfinding map at a kiosk.	Donald Pflaum (City of Minneapolis)
	<u>Collage (3rd from Top left)</u> —Flowers at the MN Landscape Arboretum (Chanhassen, MN)	Donald Pflaum (City of Minneapolis)
	<u>Collage (3rd from Top middle)</u> —Mural on a Midtown Greenway Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Collage (2nd from Top right)</u> —Midtown Greenway Arbor Day Event (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Collage (Bottom Left)</u> —Park Bench at a new development (Shakopee, MN)	Donald Pflaum (City of Minneapolis)
	<u>Collage (Bottom Center)</u> —Park Bench at a trailhead (Coon Rapids, MN)	Donald Pflaum (City of Minneapolis)
	<u>Collage (Bottom Right)</u> —Portable Toilet along West River Parkway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	Page 32	<u>Upper Right</u> —Trailhead along the Suncoast Trail (Pasco County, FL)
<u>Middle Left</u> —Trailhead along the Suncoast Trail (Pasco County, FL)		Donald Pflaum (City of Minneapolis)
<u>Middle Right</u> —Trailhead along the Suncoast Trail (Pasco County, FL)		Donald Pflaum (City of Minneapolis)
<u>Bottom Left</u> —Trailhead along the Suncoast Trail (Pasco County, FL)		Donald Pflaum (City of Minneapolis)
<u>Bottom Right</u> —Trailhead along the Suncoast Trail (Pasco County, FL)		Donald Pflaum (City of Minneapolis)
Page 33	<u>Upper Right</u> —Midtown Greenway access at West River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Cedar Lake trail access at Spring Lake (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 34	<u>Upper Right</u> —Bicyclist along the LRT Trail at 24th Street (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Trail on north side of the Stone Arch Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 35	<u>Upper Right</u> —Lakeshore Trail (Chicago, IL)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Van White Parkway Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 35	<u>Bottom Right</u> —Godfrey Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 36	<u>Upper Right</u> —Minneapolis Diagonal Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Midtown Greenway at Aldrich Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —St Anthony Parkway Trail West of Central Avenue NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 37	<u>Upper Right</u> —Midtown Greenway at Nicollet Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 38	<u>Upper Left</u> —Minnehaha Park (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 39	<u>Middle Right</u> —North Mississippi Regional Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 40	<u>Middle Right</u> —Luce Line Trail at Bryn Mawr Meadows (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 41	<u>Upper Right</u> —49th Ave N Trail at I-94 (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 42	<u>Upper Right</u> —Minnehaha Parkway Trail at Hiawatha (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Cedar Avenue south of Dodd Blvd (Lakeville, Minnesota)	Donald Pflaum (City of Minneapolis)
Page 46	<u>Upper Right</u> —West River Parkway at Ford Bridge (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 47	<u>Upper Right</u> —Minnehaha Parkway at Bryant Ave (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 48	<u>Bottom</u> —Midtown Greenway (Phase 3) (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 49	<u>Upper Right</u> —Kenilworth Trail at Cedar Lake Pkwy (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Kenilworth Trail at Cedar Lake Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Midtown Greenway at Minnehaha Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 52	<u>Upper Right</u> —LRT Trail at 24th Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Lower Right</u> —LRT Trail at 24th Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 53	<u>Upper Right</u> —At-Grade RR Crossing (Trail of the Coeur d’Alenes; Plummer, Idaho)	Brian Momberg (Rails to Trails Conservancy)
	<u>Middle Left</u> —At-Grade Trail Crossing (Madison, Wisconsin)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —LRT Trail at 24th Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —RR Crossing near Germany/ Netherlands Border (NW Germany)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bridge Over BNSF; Cedar Lake Trail near Dunwoody (Minneapolis, MN)	Aerial Orthophoto (City of Minneapolis)
Page 54	<u>Upper Right</u> —Merriam Street Bridge to Nicollet Island (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Golden Gate Bridge (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Golden Gate Bridge (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Tillary Street at Cadman Plaza (Brooklyn; New York, New York)	Chris Budel (St. Paul, MN)
Page 55	<u>Bottom Right</u> —Bicyclist on 10th Avenue Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Elm Street SE and 18th Ave SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Bloomington Ferry Ped/Bike Bridge (Bloomington, MN)	Donald Pflaum (City of Minneapolis)
Page 56	<u>Upper Left</u> —Midtown Greenway (Phase 3) (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bryant Avenue Pedestrian Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Loring Bike Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —10th Avenue Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Ford Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 57	<u>Bottom Right</u> —Camden Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Midtown Greenway at 5th Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 57	<u>Middle Right</u> —Midtown Greenway near Park Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Midtown Greenway at Chicago Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —East River Parkway near 27th Ave SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —East River Parkway near 27th Ave SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 58	<u>Upper Left</u> —Cedar Lake Trail at Royalston Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Lake Street at Park Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —13th Avenue at Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 59	<u>Upper Right</u> —LRT Trail near Cedar Riverside Station (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd Photo</u> —Midtown Greenway at Hennepin Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd Photo</u> —Kenilworth Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Loring Bikeway at Aldrich Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 60	<u>Upper Right</u> —Columbia Boulevard Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 61	<u>Bottom Right</u> —LRT Trail at the Sabo Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 62	<u>Upper Left</u> —Midtown Greenway at Brackett Park (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Midtown Greenway (Phase 3) sign (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 63	<u>Upper Right</u> —Chicago Avenue Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd Photo</u> —East Franklin Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd Photo</u> —LRT Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Midtown Greenway at Brackett Park (Minneapolis, Minnesota)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 65	<u>Upper Right</u> —Grand Rounds signage at West River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Grand Rounds signage at St. Anthony Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Trailhead along Victory Memorial Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Combined Path Signage at Mississippi Blvd. (St. Paul, MN)	Jon Wertjes (City of Minneapolis)
	<u>Bottom Right</u> —Combined Path Signage at Mississippi Blvd. (St. Paul, MN)	Jon Wertjes (City of Minneapolis)
Page 66	<u>Bottom Left</u> —Passing Zone on Kenilworth Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Passing Prohibited on Loring Bikeway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 67	<u>Upper Right</u> —Trail to Bike Lane Transition (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bike Lane to Trail Transition (Northfield, MN)	Donald Pflaum (City of Minneapolis)
Page 68	<u>Upper Right</u> —Midtown Greenway (Phase 1) (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 69	<u>Upper Right</u> —LRT Trail at Sabo Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Stone Arch Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Trail adjacent to the roadway (Chaska, Minnesota)	Donald Pflaum (City of Minneapolis)
Page 70	<u>Upper Right</u> —Concrete trail along Hiawatha Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 72	<u>Upper Right</u> —Midtown Greenway Dean Parkway Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd Photo</u> —Midtown Greenway at 18th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd Photo</u> —Midtown Greenway at 13th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Photo</u> —I-94 at Camden Bridge (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 74	<u>Upper Right</u> —At-grade railroad crossing (Farmington, MN)	Donald Pflaum (City of Minneapolis)
	<u>1st on Left</u> —Stop sign at Midtown Greenway and West River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd on Right</u> —Separated trail sign on Kenilworth Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd on Left</u> —No Motor Vehicle Signage (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd on Right</u> —Signage near Sabo Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Cedar Lake Trail Signage (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Wrong-way sign on University Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 75	<u>Middle Right</u> —Modular block wall along Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Photo</u> —Large modular block along Phase 2 of the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 76	<u>Upper Right</u> —Sheet piling along Phase 3 of the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Gabion Wall at the I-35W Bridge (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Cast-in-place wall at Loring Bikeway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 77	<u>Upper Right</u> —18th Ave NE at University Ave NE (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 78	<u>Upper Left</u> —Code Blue phone at Lake Calhoun (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Left</u> —Close up of Lake Calhoun Code Blue (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Code Blue Tower along Midtown Greenway at 31st/Chowen (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Midtown Greenway at Nicollet Ramp (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd Photo on Right</u> —5th Precinct TV Monitor of Midtown Greenway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd Photo on Right</u> —5th Precinct Computer Monitor (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 3—Off Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 78	<u>3rd Photo on Right</u> —5th Precinct Computer Monitor (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right Photo</u> —Code Blue Phone (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 79	<u>Upper Right</u> —Roller along Loring Bikeway (Minneapolis, MN)	Meseret Wolana (City of Minneapolis)
	<u>Middle Right</u> —Midtown Greenway (Phase 1) (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Photo</u> —Midtown Greenway at 5th Ave (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 81	<u>Upper Left</u> —LRT Crossing at 24th Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Trail Crossing at 28th St S and 20th Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Stop Ahead sign at Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Stop Ahead signage along Kenilworth Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Median signage along the Cedar Lake Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Trail Crossing along Phase 3 of the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

#### Chapter 4—On Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 82	<u>Upper Right</u> —Bicycle boulevard signage along Milvia (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Bicycle boulevard pavement markings (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Diverter along a bicycle boulevard (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle boulevard signage at Milvia and Channing (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
Page 83	<u>Upper Right</u> —Stop sign at N 52nd and N Aldrich (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Bicycle boulevard pavement markings (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Speed hump and pavement markings (Berkeley, CA)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 83	<u>Bottom Left</u> —Bicycle boulevard signage (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Half Closure at an intersection (Boulder, CO)	Steve Clark (TLC)
Page 84	<u>Upper Left</u> —Choker along a bicycle boulevard (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Choker with a rain garden (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Landscaped Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Diverter pavement markings (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
Page 85	<u>Bottom Left</u> —Traffic Circle along a bicycle boulevard (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Channelizing Island along a bicycle boulevard (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bike Lane along 2nd Street SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 86	<u>Bottom Left</u> —Bike Lane along 2nd Street South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Bike Lane along Plymouth Ave N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 87	<u>Middle Left</u> —Bike Lane along 42nd Ave N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bike Lane along 11th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Left</u> —Bike Lanes along 40th St S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Right</u> —Bike Lanes along Minnehaha Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 88	<u>Upper Right</u> —Paved Shoulder Century Ave (Maplewood, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd Photo</u> —Dowling Avenue North shoulder (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 88	<u>Top Right</u> —Biker riding with traffic Downtown (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd Photo on Right</u> —Biker riding with traffic (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 88	<u>3rd Photo on Right</u> —Biker riding with traffic (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>4th Photo on Right</u> —Shaun Murphy riding with traffic (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —36th Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 89	<u>Upper Right</u> —Bike Route signage in the Prospect Park Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Top Right</u> —Share the Road signage in Windom Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Share the Road signage on East River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Share the Road signage in St. Paul (St. Paul, MN)	Greg Reese (City of St. Paul)
Page 90	<u>Upper Right</u> —Sharrows on green pavement along E 2nd St (Long Beach, CA)	Russ Roca (Long Beach, CA)
	<u>Middle Left</u> —Shared Use Pavement Marking (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
Page 91	<u>Bottom Left</u> —Shared Use Pavement Marking along Bryant Ave S (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Bike in the house pavement marking (Denver, CO)	James MacKay (City of Denver)
	<u>Upper Left</u> —Shared Use Pavement Marking (Boulder, CO)	Steve Clark (TLC)
	<u>Bottom Left</u> —Shared Use Pavement Marking (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
Page 92	<u>Bottom Right</u> —Pavement Marking (St. Louis, MO)	Jon Wertjes (City of Minneapolis)
Page 93	<u>Upper Right</u> —Wide Outside lane along I-394 South Frontage Road (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 98	<u>Upper Right</u> —Bicycle signage along 4th Street S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 99	<u>Upper Right</u> —Bike Lane signage along Marquette Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle Route Sign (Chicago, Illinois)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —Bicycle wayfinding signage (Chicago, Illinois)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 99	<u>2nd from Upper Right</u> —Bicycle wayfinding signage (Chicago, Illinois)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Signage at Cedar Lake Road and Morgan Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Signage at Midtown Greenway and West River Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Left</u> —Wayfinding signage at 34th Ave and Clement Street (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Lower Right</u> —Wayfinding signage at Lincoln and Ralston (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
Page 100	<u>Upper Middle</u> —Bike Lane Pavement Marking (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Bike Lane along Roseway Road (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 101	<u>Upper Right</u> —Rumble Strip Machine (Minnesota)	Photo Courtesy of Minnesota DOT
	<u>Middle Right</u> —Rumble strip along Courthouse Road (Rosemount, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Rumble strip along Courthouse Road (Rosemount, MN)	Donald Pflaum (City of Minneapolis)
Page 103	<u>Upper Right</u> —Lowry Avenue and 3rd Street N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 105	<u>Upper Right</u> —2nd Street North in North Loop Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Como Avenue SE in the Como Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 106	<u>Upper Right</u> —Esquimalt Road RR Crossing (Victoria, BC)	John Luton (City of Victoria, BC)
	<u>Middle Right</u> —Bike Lane Crossing LRT (Portland, Oregon)	Matthew Lang Community Design Group
Page 107	<u>Upper Right</u> —27th Ave SE RR Crossing (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —42nd Street East RR Crossing (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Unpaved RR Crossing in NE Minneapolis (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Left</u> —27th Ave SE RR Crossing (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 107	<u>3rd From Upper Right</u> —Marshall Street RR Crossing (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —RR Crossing with Gate Arm (Pine City, Minnesota)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Rubberized RR Crossing (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 108	<u>Upper Right</u> —Bike Route Signage at Portland and 2nd Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Park Avenue signal (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —West Bank Bike Route signage (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 109	<u>Upper Right</u> —Push Button Actuation (Erlangen, Germany)	Chris Budel (St. Paul, MN)
	<u>Middle Right</u> —Bicycle actuation pavement marking (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Bicycle loop detection (Berkeley, CA)	Jumana Nabti (San Francisco, CA)
	<u>Middle</u> —Actuated signal push bottom signage (Berkeley, CA)	Matthew Ridgway (Fehr and Peers Associates)
Page 110	<u>Bottom Left</u> —Curbside bike lane along 40th Street S at King’s Highway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 111	<u>Upper Right</u> —Lake Street Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —10th Ave Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Ford Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Ford Bridge (Minneapolis/St. Paul, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —3rd Avenue Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 112	<u>Upper Right</u> —Downtown Minneapolis skyline looking north from 40th St (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Nicollet Avenue over Minnehaha Creek (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Diamond Lake Road Bridge over I-35W (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

**Photos**

**Chapter 4—On Street Facilities**

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 113	<u>Upper Right</u> —Bicyclist along 15th Ave SE (Minneapolis, MN)	Tara Mugane (City of Minneapolis)
	<u>Upper Left</u> —Catch Basin along 15th Ave SE (Minneapolis, MN)	Tara Mugane (City of Minneapolis)
	<u>Bottom Left</u> —42nd Avenue North catch basins (Minneapolis, MN)	Steve Olson (Minneapolis, MN)
	<u>Bottom Right</u> —Catch Basin at Cedar Lake Road and Logan Ave N (Minneapolis, MN)	Renee Schaefer (Minneapolis, MN)
Page 114	<u>Upper Right</u> —2nd Avenue South alley (Minneapolis, MN)	Donald Pflaum (Minneapolis, MN)
	<u>Upper Left</u> —2nd Avenue South alley (Minneapolis, MN)	Donald Pflaum (Minneapolis, MN)
	<u>Bottom Left</u> —2nd Avenue South alley (Minneapolis, MN)	Donald Pflaum (Minneapolis, MN)
	<u>Bottom Right</u> —2nd Avenue South alley (Minneapolis, MN)	Donald Pflaum (Minneapolis, MN)
Page 115	<u>Upper Right</u> —University Ave SE at I-35W (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bike Lane along 10th Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bike Lane along 40th St S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike Lane Construction along Richfield Road (Minneapolis, MN)	Lisa Cerney (City of Minneapolis)
Page 116	<u>Bottom Right</u> —Bike Lane Construction along Richfield Road (Minneapolis, MN)	Lisa Cerney (City of Minneapolis)
	<u>Upper Right</u> —15th Ave SE Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Right</u> —2nd Ave S Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd From Upper Right</u> —Marquette Ave S Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Marquette Ave S Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 117	<u>Bottom Right</u> —N Broadway Street (St. Paul, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —15th Ave SE Bike Lane (Minneapolis, MN)	Tara Mugane (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 118	<u>Upper Right</u> —Hennepin Avenue (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Right</u> —Marquette Ave South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd From Upper Right</u> —Marquette Ave South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —2nd Ave South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Left</u> —5th Avenue North Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Left</u> —Marquette Avenue South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Hennepin Avenue in Downtown (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	Page 119	<u>Upper Right</u> —Hiawatha Avenue (Minneapolis, MN)
<u>2nd on Right</u> —Franklin Avenue (Minneapolis, MN)		Gayle Litchy (City of Minneapolis)
<u>3rd on Right</u> —42nd Street East (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
<u>Bottom Right</u> —Thomas Avenue South (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
Page 120	<u>Upper Right</u> —Downtown Bicyclist (Minneapolis, MN)	Gayle Litchy (City of Minneapolis)
Page 122	<u>Upper Right</u> —Lowry Avenue North (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 123	<u>Upper Right</u> —Ford Bridge (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 124	<u>Upper Right</u> —Bicyclist at 46th Ave S (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 125	<u>Upper Right</u> —Central Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Fremont Ave N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Glenwood Ave N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Monroe Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 125	<u>Bottom Right</u> —1st Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 126	<u>Upper Right</u> —Osseo Rd (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —Minnehaha Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Right</u> —Nicollet Avenue South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Left</u> —Como Avenue SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 127	<u>Upper Right</u> —Bike Lane Signage (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —No Parking Signage (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Photo</u> —Three Lane Roadway (Portland, Oregon)	Steve Clark (TLC)
Page 129	<u>Upper Right</u> —Blaisdell Avenue Bike Lane (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —36th Street West (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —University Avenue Bike Lane (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —1st Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —40th St E and 19th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 130	<u>Upper Right</u> —Bloomington Ave S and 54th St S (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 131	<u>Upper Right</u> —Toronto Chicane (Toronto, Ontario)	Andrew McBeth City of Toronto
	<u>2nd From Right</u> —Chicane along a local street (Munster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Right</u> —Nicollet Mall (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Lombard Street (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
Page 132	<u>Upper Right</u> —Crosswalk at 21st and Lake (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 132	<u>Middle Right</u> —Pedestrian Crosswalk (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Midtown Greenway Crossing at Minnehaha Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Edina City Hall Crosswalk (Edina, MN)	Donald Pflaum (City of Minneapolis)
Page 133	<u>Upper Right</u> —Pierce Street NE near NE Park (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —10th Ave S at Lake Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —10th Ave S at Lake Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —20th Ave NE (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —10th Ave S at Lake Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 135	<u>Upper Right</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 136	<u>Upper Right</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —40th Street South Bike Lane (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 137	<u>Upper Right</u> —40th Street South near Lyndale (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Curb Extension	Provided by Steve Brown Fehr and Peers
	<u>Bottom</u> —Altered Curb Extension (Montreal)	Peter Furth (Boston, MA)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 4—On Street Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 138	<u>Upper Right</u> —Diverter with bicycle parking (Cologne, Germany)	Greg Raisman (City of Portland, Oregon)
	<u>2nd Photo from Upper Right</u> —Diverter with passage for bicycles (Nijmegen, Netherlands)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —17th and Rollins Diverter (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —18th and Elm Diverter (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —33rd Ave N and Penn Ave N (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Temporary Diverter (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	Page 139	<u>Upper Right</u> —Speed sign along Bryant Ave S (Minneapolis, MN)
<u>Middle Left</u> —Bicycle Giveaway at Lake Harriet Bandshell (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
<u>Middle Right</u> —Safe Routes to School Event (Minneapolis, MN)		Rebecca Gomez (City of Minneapolis)
<u>Bottom Left</u> —Bicycle training event (Minneapolis, MN)		David Peterson (City of Minneapolis)
<u>Bottom Right</u> —Bike in at the Bell Event; Bell Museum (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
Page 140	<u>Upper Right</u> —Speed wagon at a collector street (Minneapolis, MN)	Jim Dahlseid (City of Minneapolis)
	<u>Middle Right</u> —Minneapolis Police car in front of City Hall (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Minneapolis Police car in front of City Hall (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 141	<u>Upper Right</u> —Minneapolis Speed Hump along Fillmore Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd Photo</u> —Minneapolis Speed Hump (Minneapolis, MN)	Jim Dahlseid (City of Minneapolis)
	<u>3rd Photo</u> —Berkeley Speed Hump (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Berkeley Speed Hump (Berkeley, CA)	Donald Pflaum (Berkeley, CA)
Page 142	<u>Upper Right</u> —Raised Crosswalk along Fillmore Ave NE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

<b>Photos</b>
---------------

### Chapter 4—On Street Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 142	<u>Middle Photo</u> —Raised Crosswalk along East River Parkway Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 143	<u>Upper Right</u> —Raised Crosswalk along East River Parkway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 145	<u>Bottom</u> —Two-Lane Roundabout (Overland Park, Kansas)	Donald Pflaum (City of Minneapolis)
Page 146	<u>Bottom</u> —Minnehaha Avenue South Roundabout (Minneapolis, MN)	Aerial Photo (City of Minneapolis)
Page 147	<u>Upper Right</u> —Traffic Circle at 43rd and Vincent (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Lower Right</u> —Traffic Circle at 43rd and Upton (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

### Chapter 5—Bicycle Parking

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 148	<u>Upper Right</u> —Bicycle Lockers at Nicollet and 5th Street (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> — Bicycle Lockers at Public Service Center (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Bicycle Lockers at Cedar/Riverside LRT Station (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Cedar/Riverside LRT Station (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bicycle Lockers at Federal Courthouse Building (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bicycle lockers at Federal Courthouse Building (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 149	<u>Upper Right</u> —Bike Bank at the Leamington Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> — Bike Banks at the 10th Street Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Bike Banks at the 7th Street Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike Bank at the North Loop Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bike Banks at the 5th Street Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike Banks at the Leamington Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

## Bicycle Facility Design Guidelines

### Acknowledgements

<b>Photos</b>
---------------

#### Chapter 5—Bicycle Parking

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 150	<u>Upper Right</u> —Bike Racks at the Guthrie Theatre (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> — Bike Racks at Lake Street and Lyndale Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Bike Racks at the University of Minnesota (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bike Banks along the Minneapolis Riverfront (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike Banks at MCAD (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike Rack at the Grain Belt Brewery (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	Page 151	<u>Upper Right</u> —Bicycle shelter (Erlangen, Germany)
<u>Middle Right</u> —Camosun College Shelter (Victoria, BC)		John Luton (Victoria BC)
<u>Bottom Photo</u> —3M Campus Shelter (Shanghai, China)		Greg Bluem (Minnesota)
Page 152	<u>Collage (Upper Left)</u> —New York City Bike Shelter (New York, New York)	George Spyros (New York, NY)
	<u>Collage (Upper Middle)</u> —Bicycle shelter (Missoula, MT)	John Luton (Victoria, BC)
	<u>Collage (Upper Right)</u> —Hawthorne Neighborhood Bicycle Shelter (Portland, OR)	Rolf Scholtz (DERO Bike Racks)
	<u>Collage (2nd From Upper Left)</u> —Bicycle Shelter (Bremen, Germany)	Rolf Scholtz (DERO Bike Racks)
	<u>Collage (2nd From Upper Middle)</u> —Bicycle Shelter at University of Victoria (Victoria, BC)	John Luton (Victoria, BC)
	<u>Collage (3rd From Upper Middle)</u> —Bike Rack at Western Washington University (Seattle, WA)	Rolf Scholtz (DERO Bike Racks)
	<u>Collage (2nd From Upper Right)</u> —Münster, Germany Shelter (Münster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>Collage (Bottom Left)</u> —Shelter at a bus stop (Madison, WI)	Rolf Scholtz (DERO Bike Racks)
	<u>Collage (Bottom Middle)</u> —Shelter at Oberlin College (Oberlin, OH)	Duo-Gard Corporation (Canton, MI)
	<u>Collage (Bottom Right)</u> —Shelter near a building (Luzern, Switzerland)	Mark Skoine (DERO Bike Racks)

## Bicycle Facility Design Guidelines

### Acknowledgements

<b>Photos</b>
---------------

#### Chapter 5—Bicycle Parking

Page Number	Photo Description/Location	Photo Taken By
Page 153	<u>Upper Right</u> —Bike Here racks (Washington, D.C.)	Nick Mason (DERO Bike Racks)
	<u>Middle Right</u> —Bicycles attached to fence near Taste of Minnesota (St. Paul, MN)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Right</u> —Empty Bike Rack (Dublin, Ireland)	Rolf Scholtz (DERO Bike Racks)
Page 154	<u>Upper Left</u> —Bicycles near a canal (Amsterdam, Netherlands)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Right</u> —Full bicycles racks (Dublin, Ireland)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Left</u> —Bicycles near train station (Leuven, Belgium)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Right</u> —Bicycle barge (Malmo, Sweden)	Rolf Scholtz (DERO Bike racks)
	<u>Bottom Left</u> —Bicycles at construction site (Dubai, UAE)	Hans Steege (DERO Bike racks)
Page 155	<u>Bottom Right</u> —Bicycle parking on cobblestone (Rome, Italy)	Andy Kennedy Lageson (DERO Bike racks)
	<u>Upper Right</u> —Bicycle Lockers at Guthrie Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle locker at Centre Village Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Left</u> —Bicycle Lockers at XCEL Building along 4th Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 156	<u>Lower Right</u> —Bicycle Lockers at Haaf Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle Banks at Gateway Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle Bank at Centre Village Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Lower Left</u> —Bicycle Banks at Hennepin County Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 157	<u>Lower Right</u> —Bicycle Banks at Seven Corners Municipal Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle rack in front of the City of Lakes Building (Minneapolis, MN)	Rolf Scholtz (DERO Bike Racks)
Page 158	<u>Upper Left</u> —Bicycle rack in front of NE Middle School (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

## Bicycle Facility Design Guidelines

### Acknowledgements

<b>Photos</b>
---------------

#### Chapter 5—Bicycle Parking

Page Number	Photo Description/Location	Photo Taken By
Page 158	<u>Upper Right</u> —Bicycle rack at Coffman Union (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bicycle rack at Hiawatha School (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle rack at Nellie Stone Johnson School (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bicycle rack at People’s Center (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle rack at Augsburg College (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	Page 159	<u>Middle Left</u> —Bicycle locker at Chicago and 56th Street South (Minneapolis, MN)
<u>Middle Right</u> —Bicycle locker at HCMC (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
<u>Bottom Left</u> —Bicycle locker at 46th Street Station (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
<u>Bottom Right</u> —Bicycle locker at Public Service Center (Minneapolis, MN)		Shaun Murphy (City of Minneapolis)
Page 160	<u>Bottom</u> —Bicycle banks at Minneapolis Convention Center (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 161	<u>Top Right</u> —Bike racks at Ridgewood Avenue and Lyndale Avenue (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bike Racks at the Birchwood Café in the Seward Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 162	<u>Upper Right</u> —Bike Racks in the Seward Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike Racks in the Seward Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike Racks at the Cedar Riverside LRT Station.	Shaun Murphy (City of Minneapolis)
Page 163	<u>Upper Right</u> —Bike Racks in the Victory Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike Racks in the Corcoran Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike Racks in the East Isles Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 164	<u>Upper Right</u> —Bike Racks at the University of Minnesota (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

## Bicycle Facility Design Guidelines

### Acknowledgements

Photos
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#### Chapter 5—Bicycle Parking

Page Number	Photo Description/Location	Photo Taken By
Page 164	<u>Bottom Left</u> —Bike Racks at the University of Minnesota (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike Racks at the University of Minnesota (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 165	<u>Upper Left</u> —Bike Rack at Calhoun Square (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bike Rack in Cedar Isles Dean Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 166	<u>Upper Right</u> —Bicycle Rack at the U of M (Minneapolis, MN)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Left</u> —Bicycle Rack at the U of M (Minneapolis, MN)	Rolf Scholtz (DERO Bike Racks)
Page 167	<u>Middle Left</u> —Bicycle Rack along Lyndale Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle Rack in the CARAG Neighborhood	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bicycle Rack in the Longfellow Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 168	<u>Bottom Right</u> —Bicycle Rack in the Audubon Park Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle Rack at the U of M (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd from Upper Right</u> —Bicycle Racks at the U of M (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 169	<u>3rd from Upper Right</u> —Bicycle Racks at the U of M (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle Racks at the U of M (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle Rack in the Kingfield Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd from Upper Right</u> —Bicycle Racks in the Kingfield Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 170	<u>3rd from Upper Right</u> —Bicycle Racks in the Kingfield Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle Racks in the Kingfield Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle Racks at Hennepin County Government Center (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 5—Bicycle Parking

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 170	<u>Middle Left</u> —Bicycle Racks at Hennepin County Government Center (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 171	<u>Middle Left</u> —Bicycle Shelter in Winter (Colorado)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Left</u> —Bicycle Shelter in the Seward Neighborhood	Rolf Scholtz (DERO Bike Racks)

#### Chapter 6—Support Facilities

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 172	<u>Bottom Left</u> —Bicycle Banner on a light post (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Bottom Right</u> —Bicycle Banner on a light post (Berkeley, CA)	Donald Pflaum (Minneapolis, MN)
Page 174	<u>Upper Right</u> —Bicycle Repair Machine (Madison, Wisconsin)	James Thomas (Bicycle Design)
	<u>Middle Right</u> —Bicycle Repair Station (Madison, Wisconsin)	James Thomas (Bicycle Design)
	<u>Bottom Left</u> —Bike Fix-it Station (Seward Neighborhood)	Rolf Scholtz (DERO Bike Racks)
Page 175	<u>Upper Left</u> —Bicycle Share Station (Paris, France)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Middle</u> —Bicycle Share Station (Washington, D.C)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Right</u> —Bicycle Share Station (Taipei, Taiwan)	Provided by Rolf Scholtz (DERO Bike Racks)
	<u>Middle Left</u> —Bicycle Share Station (Montreal, Quebec)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Right</u> —Bicycle Share Station (Barcelona, Spain)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Left</u> —Bicycle Share Station (Philadelphia, PA)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Right</u> —Call a Bike (Berlin, Germany)	Rolf Scholtz (DERO Bike Racks)
Page 176	<u>Upper Right</u> —Midtown Bike Center (Minneapolis, MN)	Kevin Ishaug (Freewheel Bikes)
	<u>2nd From Upper Right</u> —Midtown Bike Center (Minneapolis, MN)	Kevin Ishaug (Freewheel Bikes)
	<u>3rd From Upper Right</u> —Midtown Bike Center (Minneapolis, MN)	Kevin Ishaug (Freewheel Bikes)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 6—Support Facilities

Page Number	Photo Description/Location	Photo Taken By
Page 176	<u>Bottom Right</u> —Midtown Bike Center (Minneapolis, MN)	Kevin Ishaug (Freewheel Bikes)
	<u>Bottom Left</u> —Midtown Bike Center (Minneapolis, MN)	Kevin Ishaug (Freewheel Bikes)
Page 177	<u>Upper Left</u> —Bike Barn at UC Davis (Davis, CA)	UC Davis On-Line Photo Library (Davis, CA)
	<u>Upper Right</u> —Bicycle Station at BART Station (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Union Station Bicycle Transit Center (Washington, D.C.)	Peter Furth (Boston, MA)
	<u>Middle Right</u> —Bicycle Transit Center (Washington, D.C.)	Peter Furth (Boston, MA)
	<u>Bottom Left</u> —Millennium Bike Center (Chicago, IL)	Shaun Murphy (City of Minneapolis)
Page 178	<u>Bottom Right</u> —Millennium Bike Center (Chicago, IL)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bike Valet at Presidential Inaugural (Washington, D.C.)	WABA (Washington, D.C.)
	<u>Middle Right</u> —Bike Valet at Presidential Inaugural (Washington, D.C.)	WABA (Washington, D.C.)
	<u>Bottom Right</u> —Bike Valet at Presidential Inaugural (Washington, D.C.)	WABA (Washington, D.C.)
Page 179	<u>Upper Right</u> —Pedicab Stand in Greenwich Village (New York, NY)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Pedicab riding on a plaza (Prague, Czech Republic)	Greg Raisman (City of Portland)
	<u>Bottom Right</u> —Pedicab riding on a street (New York, NY)	Dan Cornejo (St. Paul, MN)
Page 180	<u>Upper Right</u> —Bicycle lockers inside the Millennium Bike Station (Chicago, IL)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bicycle storage inside the Federal Courthouse (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle storage inside the Federal Courthouse (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

#### Chapter 7—Bicycles and Transit

Page Number	Photo Description/Location	Photo Taken By
Page 181	<u>Upper Right</u> —Bicycle rack on Metro Transit Bus (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 7—Bicycles and Transit

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 181	<u>Middle Left</u> —Bicycle rack on Metro Transit Bus (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle riding next to a Metro Transit bus with a bike rack (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Nick Mason inside LRT vehicle (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle inside LRT vehicle (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 182	<u>Upper Right</u> —Bicycle allowed on SEPTA Trains (Philadelphia, PA)	Donald Pflaum (City of Minneapolis)
	<u>Upper Left</u> —Passenger train with bicycle parking (Poland)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Right</u> —Commuter train with entire car for bicycles (Germany)	Rolf Scholtz (DERO Bike Racks)
Page 186	<u>Bottom</u> —Northstar Commuter Rail will allow bicycles on all trains (Minneapolis, MN)	Northstar Project Office (Minneapolis, MN)
	<u>Upper Left</u> —Bus on 2nd Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 187	<u>Upper Right</u> —Metrodome Station LRT Platform (Minneapolis, MN)	Jim Dahlseid (City of Minneapolis)
	<u>Middle</u> —Cedar Riverside Station LRT Platform (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 188	<u>Upper Right</u> —Bicycle ramp at staircase (Deventer, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Elevator at the Franklin Ave LRT Station (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Nicollet Avenue Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Ramp at BART station (Berkeley, CA)	Donald Pflaum (City of Minneapolis)

#### Chapter 8—Maintenance

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 189	<u>Upper Right</u> —Construction Equipment at the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Construction Equipment at the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Construction Equipment at the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 8—Maintenance

Page Number	Photo Description/Location	Photo Taken By
Page 190	<u>Upper Right</u> —Squirrel along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Kenilworth Trail at Burnham Road (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —West River Parkway Trail (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Midtown Greenway Trees (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 191	<u>Upper Right</u> —Plowing along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —Plowing along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Plowing along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Sanding along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 192	<u>Upper Right</u> —Marquette Avenue South (Minneapolis, MN)	Bicycle Messengers Assoc. (Minneapolis)
	<u>Upper Left</u> —Abandoned bicycle at a bike rack (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —10th Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Left</u> —20th Avenue South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —LRT trail at Currie Park (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —20th Avenue South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —2nd Avenue South (Minneapolis, MN)	Bicycle Messenger Assoc. (Minneapolis)
Page 193	<u>Upper Left</u> —Crack sealing along TH 7 and the SW LRT Trail (Victoria, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Crack sealing close up (Pine City, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Seal coat machine (Minneapolis, MN)	Provided by John Wargin (City of Minneapolis)
	<u>Middle Right</u> —Camden Bridge (Minneapolis, MN)	Provided by John Wargin (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 8—Maintenance

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 193	<u>Bottom Left</u> —Milled roadway at 15th Street SE (Minneapolis, MN)	Tara Mugane (City of Minneapolis)
	<u>Bottom Right</u> —Overlay along 15th Street SE (Minneapolis, MN)	Tara Mugane (City of Minneapolis)
Page 194	<u>Upper Right</u> —Bike lane signage installation along N 2nd Street (Minneapolis, MN)	Provided by Darryn Proch (City of Minneapolis)
	<u>Bottom</u> —Striping machine along Holden Avenue (Minneapolis, MN)	Provided by Darryn Proch (City of Minneapolis)
Page 195	<u>Upper Right</u> —Sweeper along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Cedar Lake Trail and Kenilworth Trail intersection (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Mural along the Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

#### Chapter 9—Innovation

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 196	<u>Upper Right</u> —Bike route shared lane signage (New York City, NY)	JoNette Kuhnau (Kimley Horn)
	<u>2nd From Upper Right</u> —Green pavement markings (Paris, France)	Matthew Lang (CDG)
	<u>3rd From Upper Right</u> —Shared Use Pavement Marking at an intersection (New York, NY)	JoNette Kuhnau (Kimley Horn)
	<u>Upper Left</u> —No Motorized Vehicle on Street Sign (Madison, WI)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Left</u> —Shared Use Pavement Markings at a Cycle Track (Montreal, Quebec)	Bill Dossett (Minneapolis, MN)
	<u>Bottom Left</u> —On-street cycle track with buffer zone (Portland, OR)	Don Arambula (Portland, OR)
	<u>Bottom Right</u> —Do Not Enter Signage at diverter (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
Page 198	<u>Middle Right</u> —Trail Roundabout at South Platte Park (Centennial, CO)	John Pflaum (WHPacific, Inc.)
	<u>Bottom Right</u> —Lee Gulch Trail and South Platte River Trail (Centennial, CO)	John Pflaum (WHPacific, Inc.)
Page 199	<u>Upper Right</u> —Trail roundabout at UC Davis Campus (Davis, CA)	UC Davis Online Library (Davis, CA)
	<u>Middle Left</u> —Midtown Greenway at CEPRO Park (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

<b>Photos</b>
---------------

### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 200	<u>Upper Right</u> —Bicycle Detection Cabinet along Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Bicycle Loop Detector along Midtown Greenway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 201	<u>Upper Right</u> —One-way cycle track (Helsinki, Finland)	Jeff Handeland (City of Minneapolis)
	<u>2nd From Upper Right</u> —One-way cycle track (Copenhagen, Denmark)	Jeff Handeland (City of Minneapolis)
	<u>3rd From Upper Right</u> —One-way cycle track (Stockholm, Sweden)	Steve Clark (TLC)
	<u>Bottom Left</u> —One-way cycle track (Helsinki, Finland)	Jon Wertjes (City of Minneapolis)
	<u>Bottom Right</u> —One-way cycle track (Paris, France)	Jeff Handeland (City of Minneapolis)
Page 202	<u>Upper Left</u> —Two-way cycle track (Barcelona, Spain)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Middle</u> —Two-way cycle track (Barcelona, Spain)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Right</u> —Two-way cycle track (Barcelona, Spain)	Rolf Scholtz (DERO Bike Racks)
	<u>Lower Left</u> —Two-way cycle track (Berlin, Germany)	Rolf Scholtz (DERO Bike Racks)
	<u>Lower Middle</u> —Two-way cycle track (Berlin, Germany)	Rolf Scholtz (DERO Bike Racks)
	<u>Lower Right</u> —Two-way cycle track (Berlin, Germany)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Right</u> —Cycle track right turn lane (Münster, Germany)	Shaun Murphy (City of Minneapolis)
Page 203	<u>2nd From Upper Right</u> —Separated cycle track (Münster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Cycle track crossing (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —One-way cycle track with vertical elements (Amsterdam, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Crossing at a one-way cycle track (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
Page 204	<u>Upper Right</u> —Two-way cycle track (Stockholm, Sweden)	Jeff Handeland (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 204	<u>Bottom</u> —Two-way cycle track (Münster, Germany)	Shaun Murphy (City of Minneapolis)
Page 205	<u>Upper Right</u> —Two-way cycle track with curb between (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Upper Left</u> —Two-way cycle track separating traffic with striping (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>2nd From Right</u> — Two-way cycle track adjacent to a roadway (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>2nd From Left</u> —Cycle track near an intersection (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>3rd From Right</u> —Two-way cycle track at an intersection (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Bottom Left</u> —Two-way cycle track separated from traffic (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Bottom Right</u> —Two-way cycle track adjacent to traffic (Montreal, Quebec)	Peter Furth (Boston, MA)
Page 206	<u>Upper Right</u> —Dismount marking on pavement (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Right</u> —Pavement markings in Uptown (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd From Upper Right</u> —Signage along the Stanley Park Seawall (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Bottom Left</u> —Walk your bicycles on the sidewalk (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Dismount Zone signage at UC Berkeley (Berkeley, CA)	Donald Pflaum (City of Minneapolis)
Page 207	<u>Bottom Right</u> —Bicycle riding prohibited (Washington, D.C.)	Peter Furth (Boston, MA)
	<u>Upper Right</u> —Signage along the U of M Transitway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Signage along the U of M Transitway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Signage along the Midtown Greenway at 5th Ave (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —Signage along the U of M Transitway (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 208	<u>Upper Right</u> —Median path between two busy roadways (Lima, Peru)	Michelle DeRobertis (Santa Clara, CA VTA)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 208	<u>Middle Right</u> —Median path between two streets (Barcelona, Spain)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom</u> —Median path along Victory Memorial Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 209	<u>Upper Right</u> —Hawthorne Bridge (Portland, Oregon)	Rolf Scholtz (DERO Bike Racks)
	<u>Middle Left</u> —Mode Signage along Cherry Creek Trail (Denver, CO)	James Mackay (Denver, CO)
	<u>Middle Right</u> —Mode signage near English Bay on the False Creek Waterfront (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Bottom Left</u> —Mode signage in concrete along an asphalt trail (San Francisco, CA)	Provided by NCUTCD Chapter 9 Committee
	<u>Bottom Middle</u> —Mode signage along a multi-use path (Mesa, AZ)	Richard Moeur (Arizona DOT)
Page 210	<u>Bottom Right</u> —Bicycle Signage (St. Louis, MO)	Jon Wertjes (Minneapolis, MN)
	<u>Upper Right</u> — Ribbon of Steel Trail system (Edmonton, Alberta)	Claire Stock (Edmonton, Alberta)
	<u>Middle Left</u> —Cedar Lake Trail at Royalston Avenue (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —BNSF freight rail next to a trail (White Rock, BC)	John Luton (Victoria, BC)
	<u>Bottom Left</u> —LRT next to trail (Edmonton, Alberta)	Claire Stock (Edmonton, Alberta)
Page 211	<u>Bottom Right</u> —Trail along the Steel Bridge (Portland, OR)	Rolf Scholtz (DERO Bike Racks)
	<u>Upper Right</u> —Green bike box (Portland, Oregon)	City of Portland (Portland, OR)
	<u>2nd From Upper Right</u> —Green bike box (Portland, Oregon)	City of Portland (Portland, OR)
	<u>3rd From Upper Right</u> —Blue bike box (Victoria, BC)	Richard Drdul (Vancouver, BC)
	<u>Bottom Left</u> —Bike box signage (Portland, OR)	City of Portland (Portland, OR)
Page 212	<u>Bottom Right</u> —Bike box at an intersection (Madison, WI)	Shaun Murphy (Minneapolis, MN)
	<u>Upper Left</u> —Bike box with several bicyclists (Münster, Germany)	Shaun Murphy (Minneapolis, MN)

## Bicycle Facility Design Guidelines

### Acknowledgements

Photos
--------

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 212	<u>Upper Right</u> —Bike box on a left sided roadway (London, UK)	Michelle Huettl (MnDOT)
	<u>Middle Left</u> —Bike box with several bicyclists (Münster, Germany)	Shaun Murphy (Minneapolis, MN)
	<u>Middle Right</u> — Reverse flow bike lane with a bike box (Brussels, Belgium)	Greg Raisman (Portland, OR)
	<u>Bottom Left</u> —Bike box at an intersection (Erlangen, Germany)	Chris Budel (St. Paul, MN)
	<u>Bottom Right</u> —Bike box at an intersection (Erlangen, Germany)	Chris Budel (St. Paul, MN)
Page 213	<u>Upper Left</u> —Green Bike Box (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Colored Bike Box (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Bottom Left</u> —Bike box at signal (Münster, Germany)	Gary Sjoquist (QBP)
	<u>Bottom Right</u> —Bike box at signal (Münster, Germany)	Gary Sjoquist (QBP)
Page 214	<u>Upper Right</u> —Advisory Bike Lane at Stone Arch Bridge (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Advisory Bike Lane (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Advisory Bike Lane (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Advisory Bike Lane (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
Page 215	<u>Upper Right</u> —Bicycle climbing lane (Seattle, WA)	John Luton (Victoria, BC)
	<u>Upper Right</u> —Bicycle climbing lane (Seattle, WA)	John Luton (Victoria, BC)
	<u>Upper Right</u> —Bicycle climbing lane (Seattle, WA)	John Luton (Victoria, BC)
Page 216	<u>Bottom Right</u> —Back-in angled parking (Seattle, WA)	Matthew Lang Community Design Group
Page 217	<u>Upper Middle</u> —Bicycle lane pavement lighting (Dresden, Germany)	Greg Raisman (City of Portland)
	<u>Upper Right</u> —Bicycle lane pavement lighting (Dresden, Germany)	Greg Raisman (City of Portland)

## Bicycle Facility Design Guidelines

### Acknowledgements

<b>Photos</b>
---------------

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 217	<u>Middle Left</u> —Bicycle lane reflectors (Santiago, Chile)	Peter Furth (Boston, MA)
	<u>Middle Right</u> —Bicycle lane reflectors (Santiago, Chile)	Peter Furth (Boston, MA)
	<u>Bottom Left</u> —Bike lane rubberized separator (Melbourne, Australia)	Malcolm Daff/Sinclair Knight Mertz (Melbourne)
	<u>Bottom Right</u> —Bike lane rubberized separator (Melbourne, Australia)	Malcolm Daff/Sinclair Knight Mertz (Melbourne)
Page 218	<u>Upper Right</u> —Bike Lane Buffer (New York, New York)	Photo Courtesy of the New York City DOT
	<u>Bottom Left</u> —Buffered Bike Lane (Bruges, Belgium)	Greg Raisman (City of Portland)
	<u>Bottom Right</u> —Buffered Bike Lane (Portland, Oregon)	Greg Raisman (City of Portland)
Page 219	<u>Upper Left</u> —Bike Lane Buffer (New York, New York)	Greg Raisman (City of Portland)
	<u>Upper Right</u> —Bike Lane Buffer (New York, New York)	Greg Raisman (City of Portland)
	<u>Middle Left</u> —Bike Lane Buffer (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bike Lane Buffer (Seattle, WA)	Photo courtesy of the City of Seattle, WA
	<u>Bottom Left</u> —Bike Lane Buffer (New York, New York)	Greg Raisman (City of Portland)
	<u>Bottom Right</u> —Bike Lane Buffer (New York, New York)	Greg Raisman (City of Portland)
Page 220	<u>Upper Right</u> —Pedestrian/bicycle street (Munster, Germany)	Gary Sjoquist (Quality Bicycle Products)
	<u>Middle Right</u> —Pedestrian/bicycle street (Munster, Germany)	Gary Sjoquist (Quality Bicycle Products)
	<u>Bottom Right</u> —Pedestrian/bicycle street (Munster, Germany)	Gary Sjoquist (Quality Bicycle Products)
Page 221	<u>Upper Right</u> —Chicago Avenue Plaza (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom</u> —Milwaukee Avenue (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 222	<u>Upper Left</u> —Pedestrian/bicycle street (Kiel, Germany)	Steve Clark (TLC)

# Bicycle Facility Design Guidelines

## Acknowledgements

<b>Photos</b>
---------------

### Chapter 9—Innovation

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 222	<u>Upper Right</u> —Pedestrian/bicycle street (Dresden, Germany)	Greg Raisman (City of Portland)
	<u>Bottom Left</u> —Diverter signage (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Do Not Enter Signage (Brussels, Belgium)	Greg Raisman (City of Portland)
Page 223	<u>Upper Right</u> —Bicycle Signal at an intersection (Münster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Close up of a bicycle signal at an intersection (Münster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bicycle signal at an intersection (Kiel, Germany)	Shaun Murphy (City of Minneapolis)
Page 224	<u>Upper Left</u> —Trail crossing signalization (New York, New York)	Chris Budel (St. Paul, MN)
	<u>Upper Right</u> —Bicycle Signal close-up (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Bicycle scramble at a signalized intersection (Portland, Oregon)	Mary Jackson (MnDOT)
Page 225	<u>Upper Left</u> —Bicycle signalization head (Cologne, Germany)	Greg Raisman (City of Portland)
	<u>Upper Middle</u> —Bicycle signalization head (Cologne, Germany)	Greg Raisman (City of Portland)
	<u>Upper Right</u> —Protected right turn (Amsterdam, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Left-turn arrow (Münster, Germany)	Shaun Murphy (City of Minneapolis)
Page 226	<u>Bottom Right</u> —Left turn bicycle symbol (Portland, Oregon)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Green Bicycle Lane (Chicago, Illinois)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Blue Bicycle Lane (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>3rd From Upper Right</u> —Green Bicycle Lane (New York City, NY)	Chris Budel (St. Paul, MN)
	<u>Bottom Right</u> —Orange Bike Lane (Luxembourg City, Luxembourg)	Mark Skoine (DERO Bike Racks)
Page 227	<u>Upper Right</u> —Blue bike lane in conflict zone (Cambridge, MA)	Peter Furth (Boston, MA)

# Bicycle Facility Design Guidelines

## Acknowledgements

<b>Photos</b>
---------------

### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 227	<u>Bottom</u> —Blue bike lane in conflict zone (Cambridge, MA)	Peter Furth (Boston, MA)
Page 228	<u>Upper Right</u> —Combined right turn lane (Eugene, OR)	Michael Ronkin (Oregon DOT)
	<u>Middle Right</u> —Combined right turn lane (Washington, D.C.)	Peter Furth (Boston, MA)
	<u>Bottom Right</u> —Combined left turn lane (New York, NY)	Donald Pflaum (City of Minneapolis)
Page 229	<u>Upper Right</u> —Contra-flow lane along 5th Ave SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Contra-flow bike lane along Hennepin Ave (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Contra-flow bike lane (Madison, WI)	Aaron Iverson (City of Madison, WI)
	<u>Bottom Right</u> —Contra-flow bike lane along 4th Street South (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 230	<u>Upper Left</u> —Reverse flow bike lane adjacent to parking (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Upper Right</u> —Reverse flow bike lane adjacent to parking (Montreal, Quebec)	Peter Furth (Boston, MA)
	<u>Bottom</u> —Reverse flow bike lane adjacent to parking (Montreal, Quebec)	Peter Furth (Boston, MA)
Page 231	<u>Upper Right</u> —Diagonal striping along East 15th Street (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Below</u> —Aerial photo of East 15th Street (Minneapolis, MN)	Aerial Photo (City of Minneapolis)
Page 232	<u>Bottom Left</u> —Bicycle merging sign (Eugene, Oregon)	Provided by Diane Bishop (City of Eugene, OR)
	<u>Middle Right</u> —Transition Zone (Eugene, Oregon)	Provided by Diane Bishop (City of Eugene, OR)
	<u>Bottom Right</u> —Transition Zone (Eugene, Oregon)	Provided by Diane Bishop (City of Eugene, OR)
Page 233	<u>Upper Right</u> —The Embarcadero (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Lower Right</u> —The Embarcadero (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
Page 234	<u>Upper Right</u> —Half Closure at intersection (Portland, OR)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 234	<u>Middle Right</u> —Half closure at an intersection (Berkeley, CA)	Photo Courtesy of the City of Berkeley, California
	<u>Bottom Right</u> —Half closure on Bryant St and Embarcadero Rd (Palo Alto, CA)	Michelle DeRobertis (Santa Clara, CA VTA)
Page 235	<u>Upper Right</u> —Intersection pavement markings (Paris, France)	Chris Budel (St. Paul, MN)
	<u>Middle Right</u> —Shared Use Pavement Markings through an intersection (Montreal, Quebec)	Bill Dossett (Minneapolis, MN)
	<u>Bottom Left</u> —Shared Use Pavement Markings through an intersection (Paris, France)	Chris Budel (St. Paul, MN)
	<u>Bottom Right</u> —Colored Pavement Markings (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
Page 236	<u>Upper Right</u> —Portland Ave S (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>2nd From Upper Right</u> —4th Street South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>3rd From Upper Right</u> —4th Street South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —4th Street South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
Page 238	<u>Upper Right</u> —Left Turn Lane for Bicycles (Portland, OR)	Richard Drdul (Seattle, WA)
	<u>Middle Left</u> —Right and Left Turn Lane for Bicycles (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Middle Right</u> —Left Turn Pocket in Median Meridian and (Seattle, WA)	Dan Burden (Orlando, Florida)
	<u>Bottom Left</u> —Left Turn Pocket (Seattle, WA)	John Luton (Victoria, BC)
	<u>Bottom Right</u> —Left Turn Lane (Victoria, BC)	John Luton (Victoria, BC)
Page 240	<u>Upper Left</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

**Photos**

### Chapter 9—Innovation

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 240	<u>Bottom Left</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Median Diverter (Portland, OR)	Shaun Murphy (City of Minneapolis)
Page 241	<u>Upper Right</u> —Signage along 1st Avenue North (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Bike lane/cycle track (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle lane/cycle track along 1st Avenue North (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —Bike lane/cycle track Copenhagen, Denmark	Shaun Murphy (City of Minneapolis)
Page 242	<u>Bottom Right</u> —Bicycle lane/cycle track along 1st Avenue North (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Pervious Pavement (Minneapolis, MN)	Jeff Handeland (City of Minneapolis)
	<u>Middle Left</u> —Pervious Pavement along 54th St (Minneapolis, MN)	Jeff Handeland (City of Minneapolis)
	<u>Middle Right</u> —Pervious Pavement Parking Lot (Minneapolis, MN)	Jeff Handeland (City of Minneapolis)
Page 243	<u>Bottom Left</u> —Pervious Pavement along 54th St (Minneapolis, MN)	Jeff Handeland (City of Minneapolis)
	<u>Upper Right</u> —Raised bike lane (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Middle Right</u> —Pavement cross section (Eugene, OR)	Provided by Diane Bishop (Eugene, OR)
	<u>Bottom Right</u> —Raised bike lane (Eugene, OR)	Provided by Diane Bishop (Eugene, OR)
Page 244	<u>Upper Right</u> — Right pocket zone (Munster, Germany)	Chris Budel (St. Paul, MN)
	<u>Middle Left</u> —Right pocket (Portland, OR)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Colored right pocket zone (Erlangen, Germany)	Chris Budel (St. Paul, MN)
	<u>Bottom Left</u> —Burrard Street right pocket zone (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Bottom Right</u> —Burrard Street right pocket zone (Vancouver, BC)	John Luton (Victoria, BC)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 245	<u>Upper Left</u> —Roundabout with red pavement (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Wide bicycle lane at roundabout (Nijmegen, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Wide bicycle lane at roundabout (Nijmegen, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —One way cycle track on outside of roundabout (Nijmegen, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Blue pavement markings at a roundabout (Sakskøbing, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Pavement markings at a roundabout (Rødby, Denmark)	Shaun Murphy (City of Minneapolis)
Page 246	<u>Upper Left</u> —Shared Use Pavement Marking (Seattle, WA)	John Luton (Victoria, BC)
	<u>Upper Right</u> —Shared Use Pavement Marking (Long Beach, CA)	Russ Roca (Long Beach, CA)
	<u>Bottom Left</u> —Shared Use Pavement Marking (New York, New York)	Greg Raisman (Portland, OR)
	<u>Bottom Right</u> —Shared Use Pavement Marking (Chicago, IL)	Shaun Murphy (City of Minneapolis)
Page 247	<u>Upper Right</u> —Seasonal bike lane along 20th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Seasonal bike lane along 20th Ave S (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 248	<u>Upper Right</u> —Half closure at an intersection (Tucson, AZ)	Nazir Lalani Traffex Engineers Inc. (LA, CA)
	<u>Middle Right</u> —Half closure at an intersection (Tucson, AZ)	Steven Vance (Chicago, IL)
	<u>Bottom</u> —Half closure at an intersection (Tucson, AZ)	Steven Vance (Chicago, IL)
Page 249	<u>Upper Right</u> —Traffic Choker with bicycle chicanes (Utrecht, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —Sidewalk bars prevent bicyclists from biking on sidewalk (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Speed hump along a trail (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Cycle track at an intersection (Nijmegen, Netherlands)	Shaun Murphy (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 250	<u>Upper Right</u> —5th St SE (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Lake Harriet Parkway (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom</u> —Pavement Markings at University of Minnesota (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 251	<u>Upper Right</u> —Wayfinding signage at an intersection (Germany)	Chris Budel (St. Paul, MN)
	<u>Upper Left</u> —Wayfinding signage (Adelaide, Australia)	Jennifer Ringold (MPRB)
	<u>2nd From Upper Right</u> —Kiosk and wayfinding signage (Paris, France)	Chris Budel (St. Paul, MN)
	<u>2nd From Upper Left</u> —Wayfinding signage at an intersection (Italy)	Chris Budel (St. Paul, MN)
	<u>3rd From upper Right</u> —Wayfinding signage at an intersection (Germany)	Chris Budel (St. Paul, MN)
	<u>Bottom Left</u> —Wayfinding signage at an intersection (Germany)	Chris Budel (St. Paul, MN)
	<u>Bottom Right</u> —Wayfinding signage at an intersection (Austria)	Chris Budel (St. Paul, MN)
Page 252	<u>Upper Right</u> —Artistic bike racks at the Uptown Transit Hub (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Left</u> —Artistic bike racks at the Weisman Art Museum (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Right</u> —Artistic bike racks in the Phillips Neighborhood (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>2nd From Upper Left</u> —Bike racks at Orchestra Hall (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>3rd From upper Right</u> —Bike racks in Uptown (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bike racks at the U of M Campus (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Bike racks along Lake Street (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 253	<u>Upper Right</u> —Bicycle keypad at Ameriprise parking ramp (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —City Center Parking Ramp (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

Page Number	Photo Description/Location	Photo Taken By
Page 253	<u>Bottom Left</u> —Ramp along 2nd Avenue South (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Right</u> —King George Square Cycle Center (Brisbane, Australia)	Georgina Robinson (Brisbane Times)
Page 254	<u>Upper Left</u> —Bicycle parking at US Bancorp dock (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Upper Right</u> —Bicycle parking at a Mid City Industrial Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bicycle parking at Ameriprise Building (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bicycle parking at Marquette Hotel (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Left</u> —Bicycle parking at Metro Parking Ramp (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —7th St parking ramp bike racks (Minneapolis, MN)	Shaun Murphy (City of Minneapolis)
Page 255	<u>Upper Right</u> —On-Street bicycle parking (Portland, OR)	Rolf Scholtz (DERO Bike Racks)
	<u>2nd From Upper Right</u> —On-Street bicycle parking (Bruges, Belgium)	Greg Raisman (City of Portland)
	<u>3rd From Upper Right</u> —On-Street bicycle parking (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —On-Street bicycle parking (Portland, OR)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Right</u> —Bicycle rack in front of an ice cream shop (Idaho)	Greg Raisman (City of Portland)
Page 256	<u>Top Right</u> —Bicycle parking ramp (Amsterdam, Netherlands)	Shaun Murphy (City of Minneapolis)
	<u>Middle Left</u> —Bicycle parking ramp (Amsterdam, Netherlands)	Rolf Scholtz (DERO Bike Racks)
	<u>Bottom</u> —Bicycle parking ramp (Amsterdam, Netherlands)	Shaun Murphy (City of Minneapolis)
Page 257	<u>Upper Left</u> —Bicycle Parking Signage (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Upper Right</u> —Signage at a bicycle parking shelter (Japan)	Provided by Rolf Scholtz (DERO Bike Racks)
	<u>Bottom Left</u> —Pavement markings showing bicycle parking (Brussels, Belgium)	Greg Raisman (City of Portland)

# Bicycle Facility Design Guidelines

## Acknowledgements

### Photos

#### Chapter 9—Innovation

<b>Page Number</b>	<b>Photo Description/Location</b>	<b>Photo Taken By</b>
Page 257	<u>Bottom Right</u> —Signage at a bicycle parking location (Japan)	Provided by Rolf Scholtz (DERO Bike Racks)
Page 258	<u>Upper Left</u> —Cycle track around bus stop (Erlangen, Germany)	Chris Budel (St. Paul, MN)
	<u>Upper Right</u> —Cycle track around bus stop (Erlangen, Germany)	Chris Budel (St. Paul, MN)
	<u>Bottom Left</u> —Cycle track around bus stop (Münster, Germany)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Cycle track around bus stop (Erlangen, Germany)	Chris Budel (St. Paul, MN)
Page 259	<u>Upper Right</u> —Bicycles on Market Street (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Right</u> —Shared bus/bike lane (Paris, France)	Matthew Lang Community Design Group
	<u>Bottom Left</u> —Shared bus/bike lane (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>Bottom Right</u> —Shared Bus/Bike Lane (Philadelphia, PA)	Donald Pflaum (City of Minneapolis)
Page 260	<u>Upper Left</u> —Shared bus/bike lane signage (Brussels, Belgium)	Greg Raisman (City of Portland)
	<u>Upper Right</u> —Bus Lane Signage (Adelaide, Australia)	Jennifer Ringold (MPRB)
	<u>Middle Left</u> —Shared bus/bike lane signage (Vancouver, BC)	John Luton (Victoria, BC)
	<u>Middle Right</u> —Shared bus/bike lane signage along Hennepin Ave (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)
	<u>Bottom Left</u> —3rd Ave Shared Bus/Bicycle Signage (Seattle, WA)	Matthew Lang Community Design Group
	<u>Bottom Right</u> —Shared bus/bike lane signage (Münster, Germany)	Shaun Murphy (City of Minneapolis)
Page 261	<u>Upper Right</u> —Bus stop/bike lane (San Francisco, CA)	Donald Pflaum (City of Minneapolis)
	<u>Middle Left</u> —Bus stop/bike lane (Copenhagen, Denmark)	Shaun Murphy (City of Minneapolis)
	<u>Middle Right</u> —Bus lane prohibiting bicycles (Paris, France)	Matthew Lang Community Design Group
	<u>Bottom Left</u> —Shared bus/bike lane through an intersection (Paris, France)	Matthew Lang (CDG)
	<u>Bottom Right</u> —Shared bus/bike lane on Hennepin Ave (Minneapolis, MN)	Donald Pflaum (City of Minneapolis)