

# CITY OF ATLANTA

## Designing Streets For All Ages and Abilities



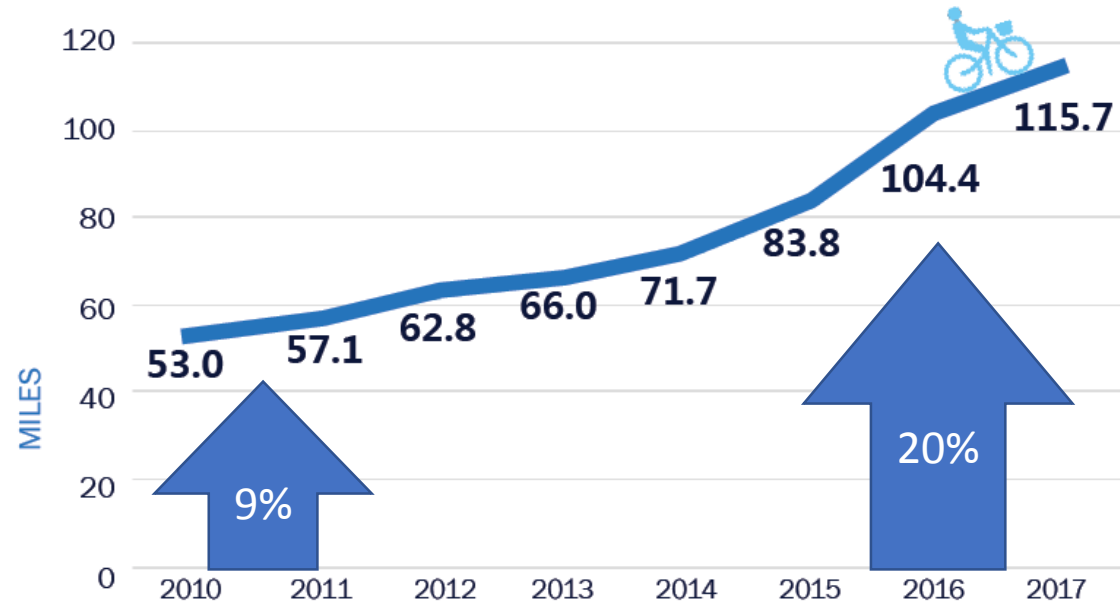
Department of  
**CITY PLANNING**

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# 2017 KEY BICYCLE PROJECTS

- **PATH Parkway**
- BeltLine Westside Trail
- Ralph David Abernathy Boulevard Bike Lanes
- Mural Bike Rack & Bicycle Art Programs

# BIKE INFRASTRUCTURE MILEAGE



# Bike Counter 2017 Daily Ridership Averages

## COUNTERS INSTALLED IN 2016

10th Street & Monroe Drive	<b>1137</b>
10th Street & Myrtle Street	<b>507</b>
5th Street (Tech Square)	<b>287</b>
Peachtree Street	<b>119</b>
Peachtree Center Avenue	<b>102</b>

# Relay Bike Share

25,000+ riders  
86,500 trips  
49,000 hours  
193,400 miles



# Past Selection Processes: City of Atlanta Bike Plan 1995

## Types of Bicycle Facilities

### Class I – MultiUse Greenway Trail

### Class II- Bike Lanes, Bike Shoulder, Wide Curb Lane

### Class III - Shared Travel Lane

#### BICYCLE FACILITIES ON DIFFERENT TYPES OF STREETS

##### Arterials and Major Collectors

The most appropriate facilities for cyclists on arterial and major collector streets are bike lanes. Bike lanes provide separate facilities for cyclists, decrease the stress level of the cyclist, increase safety, and expand the awareness of motorists that cyclists have a right to the road. Some roadways cannot physically provide for bike lanes due to constraints, such as existing buildings or environmentally sensitive areas. In these cases, it might be possible to narrow or remove travel or parking lanes to accommodate the bike lane. A wide curb lane, however, can be substituted as a last resort. If a wide curb lane is used on an arterial or major collector, reducing the travel speed can create a safer and more comfortable environment for the cyclists.

##### Minor Collectors and Local Streets

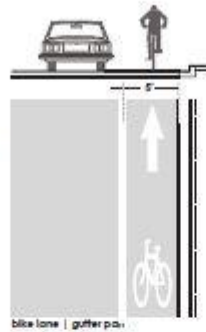
The most appropriate facilities for cyclists on minor collectors and local streets are wide curb lanes and shared lanes, since the traffic speeds and volumes are lower on such streets. Bike lanes are appropriate on minor collectors if high traffic volumes and speeds require separate facilities, if the street connects to other existing bike lanes, or if particular destination points generate levels of high bicycle traffic.



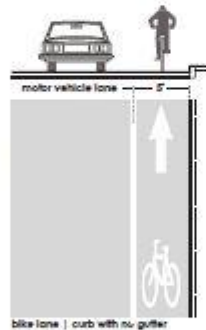
# Past Selection Processes: City of Atlanta Bike Plan 2008

## 1.5 GUIDANCE ON BICYCLE FACILITY DESIGN

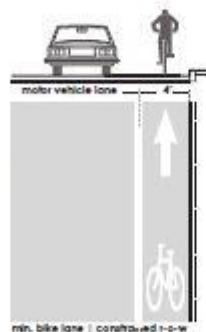
**Design Option 1:  
Standard 5'  
Bicycle Lane  
(Curb and Gutter)**



**Design Option 2:  
Standard 5'  
Bicycle Lane  
(Header Curb)**



**Design Option 3:  
4' Bicycle Lane  
(For Constrained  
Street Sections)**



Where these should be used	Where they should NOT be used	Guidelines for placement
<ul style="list-style-type: none"> <li>Used on curb-and-gutter street sections without on-street parking.</li> <li>Can be striped when existing curb dimensions will allow five (5) feet of smooth surface for the bicycle lane and at least ten (10) feet of width remaining for the adjacent travel lane.</li> <li>This (or Design Option 2, depending on curb construction) should be used as the base design for any reconstructed streets or roads where bicycle lanes are to be added and on-street parking will not be included. Five (5) feet should always be used as the base dimension for bicycle lane width when adjacent to a travel lane.</li> </ul>	<ul style="list-style-type: none"> <li>Do not apply if this bicycle lane will replace permitted on-street parking without the Department of Public Works first working with neighborhood residents to determine if this is an acceptable design option.</li> <li>Do not apply if existing curb-to-curb dimensions will not allow five (5) feet of bike lane in paved surface AND at least ten (10) feet of width in adjacent travel lane.</li> </ul>	<ul style="list-style-type: none"> <li>Place one marking (bicycle symbol and arrow) immediately after a signalized intersection and at least one per 500 feet.</li> <li>Refer to MUTCD (2003 edition) Chapter 9C, Figure 9C-6 for appropriate design and spacing of the bicycle symbol and arrow.</li> <li>At intersections with dedicated right turn lanes, bicycle lanes should always be placed between the turn lane and the right-most through travel lane.</li> </ul>
<ul style="list-style-type: none"> <li>Used on header curb sections without on-street parking.</li> <li>Can be striped when existing curb dimensions will allow five (5) feet of smooth surface for the bicycle lane and at least ten (10) feet of width remaining for the adjacent travel lane.</li> <li>This (or Design Option 1, depending on curb construction) should be used as the base design for any reconstructed streets or roads where bicycle lanes are to be added and on-street parking will not be added. Five (5) feet should always be used as the base dimension for bicycle lane width when adjacent to parking.</li> </ul>	<ul style="list-style-type: none"> <li>Do not apply if this bicycle lane will replace permitted on-street parking without the Department of Public Works first working with neighborhood residents to determine if this is an acceptable design option.</li> <li>Do not apply if existing curb-to-curb dimensions will not allow five (5) feet of bike lane in paved surface AND at least ten (10) feet of width in adjacent travel lane.</li> </ul>	<ul style="list-style-type: none"> <li>Place one marking (bicycle symbol and arrow) immediately after a signalized intersection and at least one per 500 feet.</li> <li>Refer to MUTCD (2003 edition) Chapter 9C, Figure 9C-6 for appropriate design and spacing of the bicycle symbol and arrow.</li> <li>At intersections with dedicated right turn lanes, bicycle lanes should always be placed between the turn lane and the right-most through travel lane.</li> </ul>
<ul style="list-style-type: none"> <li>Used on header curb sections without on-street parking.</li> <li>Should only be used when existing curb dimensions will allow only four (4) feet of smooth surface for the bicycle lane and at least ten (10) feet of width remaining for the adjacent travel lane (i.e. total width from centerline to curb is 14 feet).</li> <li>May be used when centerline-to-curb width is up to 16 feet if travel lane widths up to 12 feet need to be preserved. If centerline-to-curb width is greater than 16 feet, a five (5) foot bicycle lane should be used.</li> <li>When streets are reconstructed and bicycle lanes will be added, a five-foot width should always be used unless there are physical limitations or cost-related reasons that would make that width impractical.</li> </ul>	<ul style="list-style-type: none"> <li>Do not apply if this bicycle lane will replace permitted on-street parking without the Department of Public Works first working with neighborhood residents to determine if this is an acceptable design option.</li> <li>Do not apply if existing curb-to-curb dimensions will not allow four (4) feet of bike lane in paved surface AND at least ten (10) feet of width in adjacent travel lane.</li> </ul>	<ul style="list-style-type: none"> <li>Place one marking (bicycle symbol and arrow) immediately after a signalized intersection and at least one per 500 feet.</li> <li>Refer to MUTCD (2003 edition) Chapter 9C, Figure 9C-6 for appropriate design and spacing of the bicycle symbol and arrow.</li> </ul>



# Selection Gap Filler: Cycle Atlanta 1.0 and 2.0 (2013 and 2018)



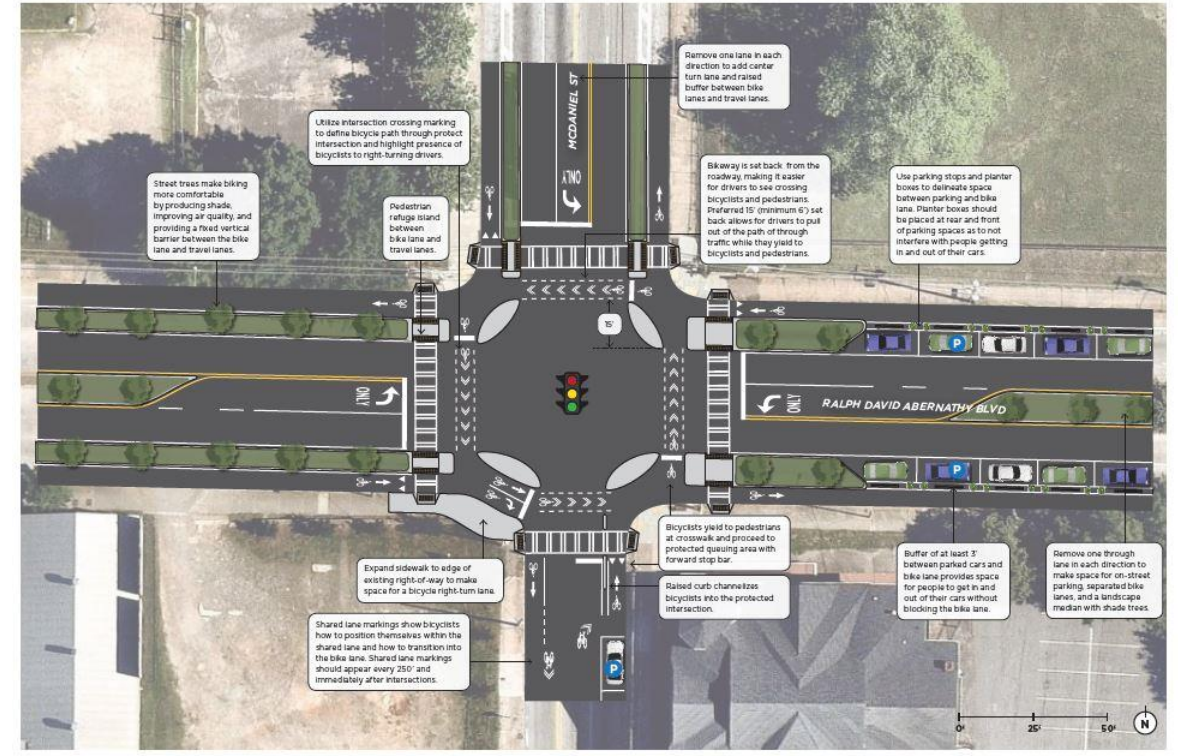
Cross Section ID	Cross Section	Street	From	To
A17	<b>CYCLE TRACK</b> 	West Peachtree Street	12th Street	8th Street
A18	<b>CYCLE TRACK</b> 	West Peachtree Street	8th Street	5th Street
A19a	<b>SHARED LANE MARKINGS</b> 	Peachtree Street	10th Street	North Avenue
A19b	<b>BIKE LANES</b> 	Peachtree Street	10th Street	North Avenue

## West End Station

## MCDANIEL ST + RALPH DAVID ABERNATHY BLVD

50

CYCLE ATLANTA: AN APPENDIX TO ATLANTA'S TRANSPORTATION PLAN







# Current Selection Processes Background: City of Atlanta Move Atlanta 2015

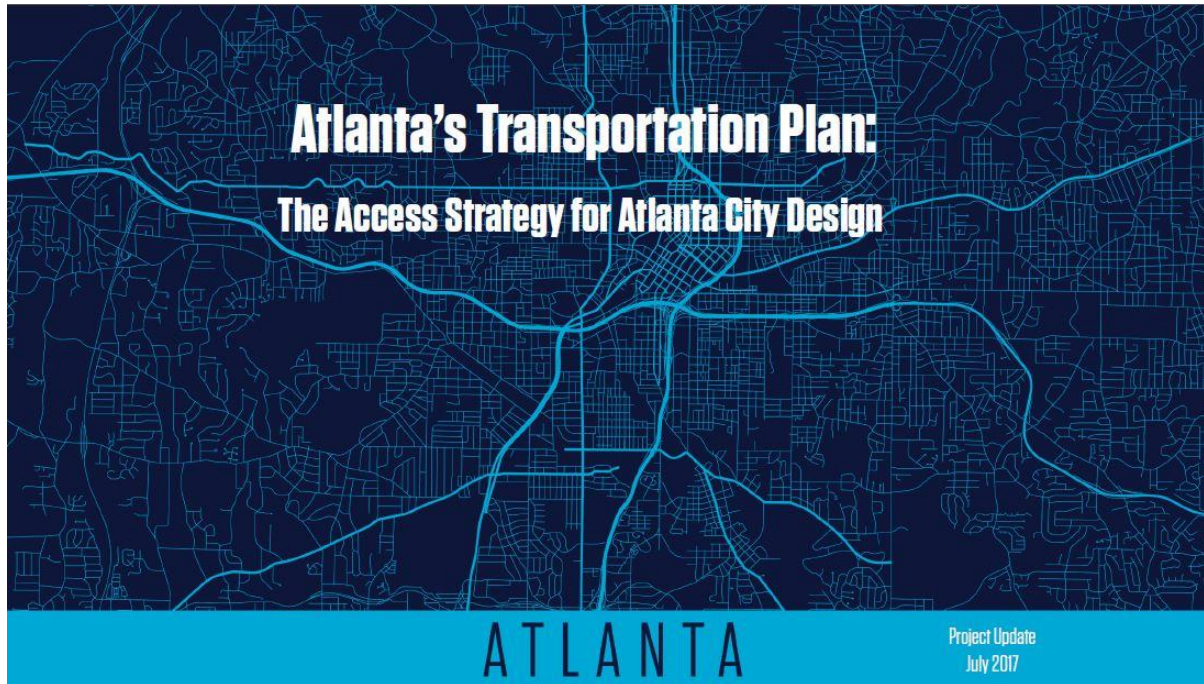
## Move Atlanta Design Manual

- Inspired by LA's Model Street Design Manual
- Consolidated all previous roadway manuals in the City of Atlanta (13 manuals)





# Current Selection Processes: City of Atlanta Transportation Plan 2018



## DESIGN GUIDANCE FOR CHOOSING A FACILITY TYPE

Figure 7-1 National Association of City Transportation Official Facility Selection Guidance

Contextual Guidance for Selecting All Ages & Abilities Bikeways				
Roadway Context				All Ages & Abilities Bicycle Facility
Target Motor Vehicle Speed <sup>1</sup>	Target Max. Motor Vehicle Volume (ADT)	Motor Vehicle Lanes	Key Operational Considerations	
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts <sup>2</sup>	Protected Bicycle Lane
< 10 mph	Less relevant	No centerline, or single lane one-way	Pedestrians share the roadway	Shared Street
≤ 20 mph	≤ 1,000 – 2,000		< 50 motor vehicles per hour in the peak direction at peak hour	Bicycle Boulevard
≤ 25 mph	≤ 500 – 1,500			Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane
	≤ 1,500 – 3,000	Single lane each direction, or single lane one-way		Buffered or Protected Bicycle Lane
	≤ 3,000 – 6,000		Low curbside activity, or low congestion pressure	Protected Bicycle Lane
	Greater than 6,000	Multiple lanes per direction		Protected Bicycle Lane, or Reduce Speed
Greater than 26 mph <sup>1</sup>	≤ 6,000	Single lane each direction	Low curbside activity, or low congestion pressure	Protected Bicycle Lane, or Reduce to Single Lane & Reduce Speed
	Greater than 6,000	Multiple lanes per direction		Protected Bicycle Lane, or Bicycle Path
	Any	Any	Any	Bike Path with Separate Walkway or Protected Bicycle Lane
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts		Any	High pedestrian volume	Shared-Use Path or Protected Bicycle Lane
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane

<sup>1</sup>While posted or 85th percentile motor vehicle speed are commonly used design speed targets, 95th percentile speed captures high-end speeding, which causes greater stress to bicyclists and more frequent passing events. Setting target speed based on this threshold results in a higher level of bicycling comfort for the full range of riders.

<sup>2</sup>Setting 25 mph as a motor vehicle speed threshold for providing protected bikeways is consistent with many cities' traffic safety and Vision Zero policies. However, some cities use a 30 mph posted speed as a threshold for protected bikeways, consistent with providing a Level of Traffic Stress level 2 (LTS 2) that can effectively reduce stress and accommodate more types of riders.<sup>3</sup>

<sup>3</sup>Operational factors that lead to bikeway conflicts are reasons to provide protected bike lanes regardless of motor vehicle speed and volume.

(Credit: Designing for All Ages & Abilities, National Association of City Transportation Officials)



# THANKS!



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