Accommodating Buses and Bicycles Together on City Streets

Design and Education Recommendations

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Why it Matters

What we did

What you can do

Why it matters

Bike/bus interactions
…on the rise

People on bicycles // bus operators dissimilar perceptions of each other

What we did

Existing design guidance

15 study corridors

Standard bike lanes

Buffered bike lanes

Separated bikeway

Shared bike-bus lane (SBBL)

RESEDA BLVD
VAN NUYS BLVD
405
210
5
101
SAN FERNANDO VALLEY
134
2
PASADENA
GLENDALE
COLORADO BLVD
SAN GABRIEL VALLEY
210
ROSEMEAD BLVD
101
HOLLYWOOD
110
SUNSET BLVD
WILSHIRE BLVD
10
405
LOS ANGELES ST
VENICE BLVD
7TH ST
SANTA MONICA
DTLA
10
60
FIGUEROA ST
MAIN ST
110
SOUTH LOS ANGELES
605
SAN PEDRO ST
710
105
5
91
405
LONG BEACH
BROADWAY
ALAMITOS AVE
PACIFIC AVE
N

Some serious number crunching

Volumes

Ridership

Behavior

Bus Ops

Bicycle Traffic Stress

Collisions

Listening to users

What you can do

What works

1. Sharing can be done safely
2. Look for small wins
3. Add a bike facility
4. Use green “skip-stripe” markings

What doesn’t work

1. Unusual/confusing designs
2. Unclear signage on permissions
3. Narrow shared bus/bike lanes
4. Intermittent designs

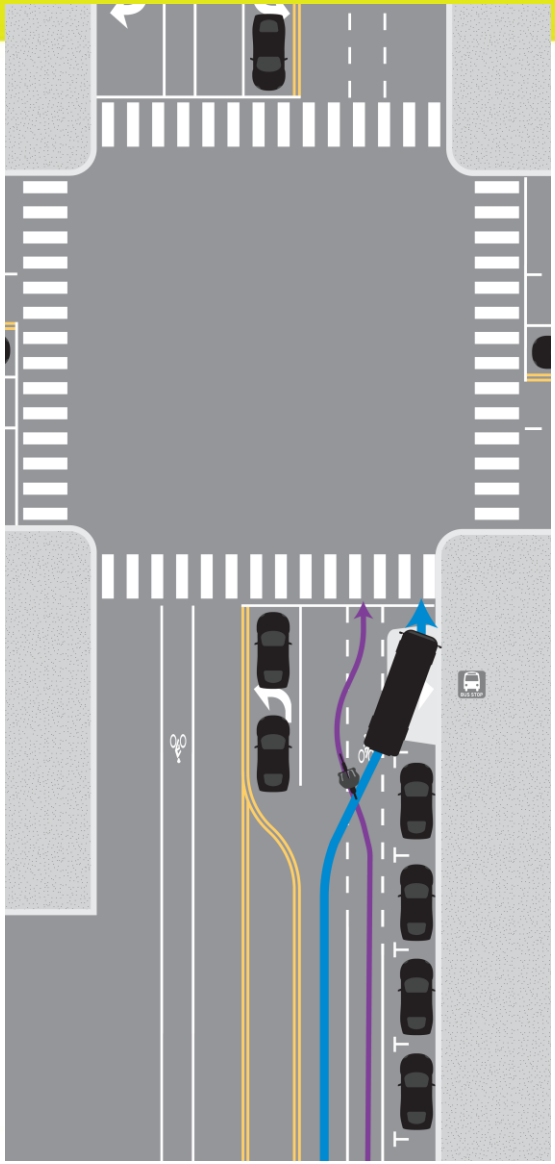
Influence the design process

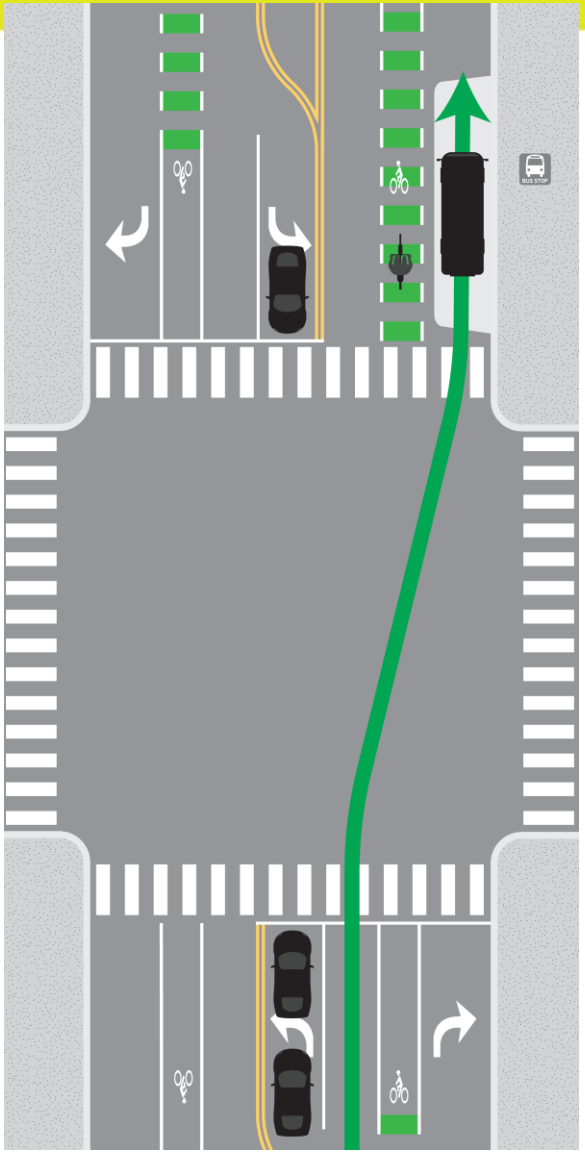
- ☑ Invite operators to weigh in on designs
- ☑ City should give “heads-up” before implementing
- ☑ Operators have channels for giving feedback

Design Recommendations

Provide space for bus to clear bikeway

1.



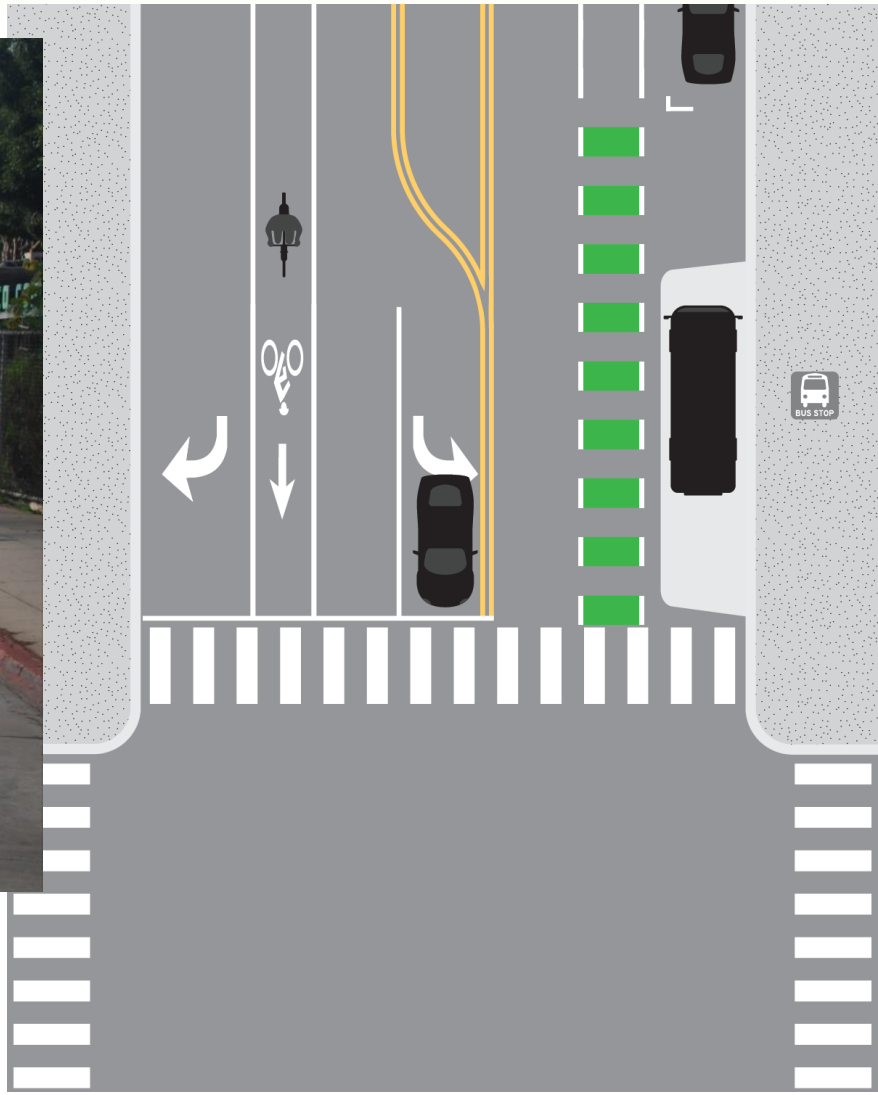


Construct bus boarding islands at busy stops

2.

Stripe conflict area at stops

3.



Stripe conflict area at stops

3.

Identify and reduce intersection conflicts

4.

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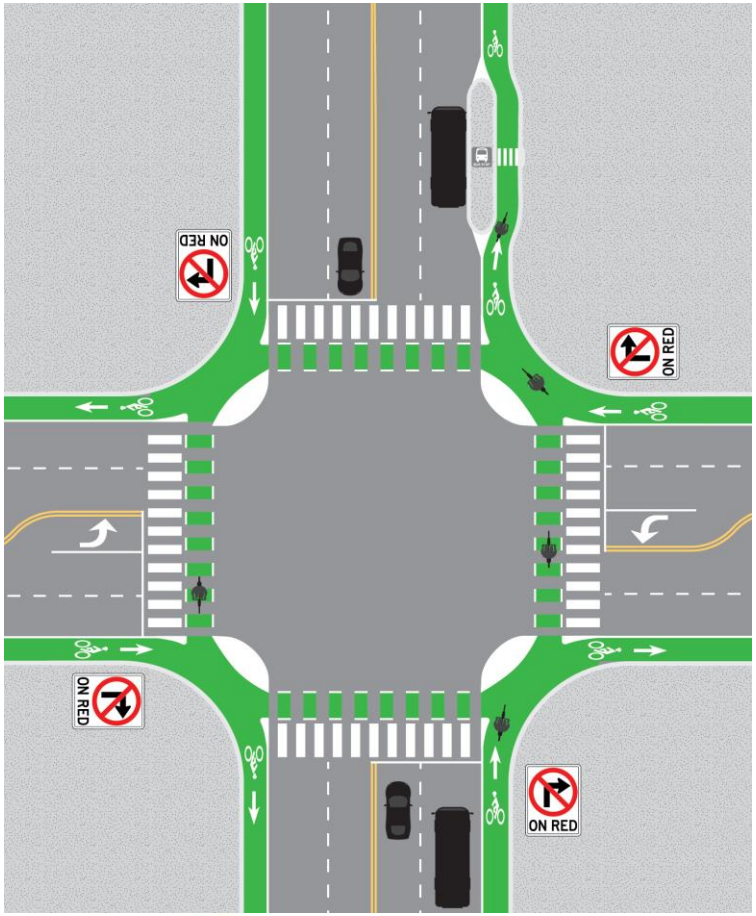

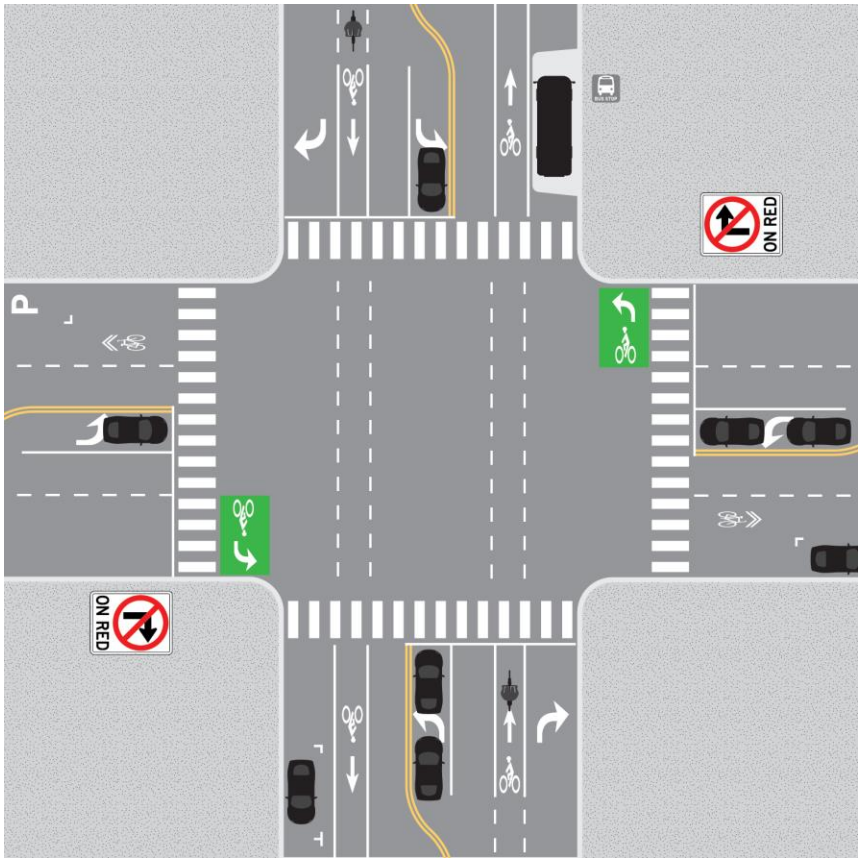

Provide clear sight lines on separated bikeways

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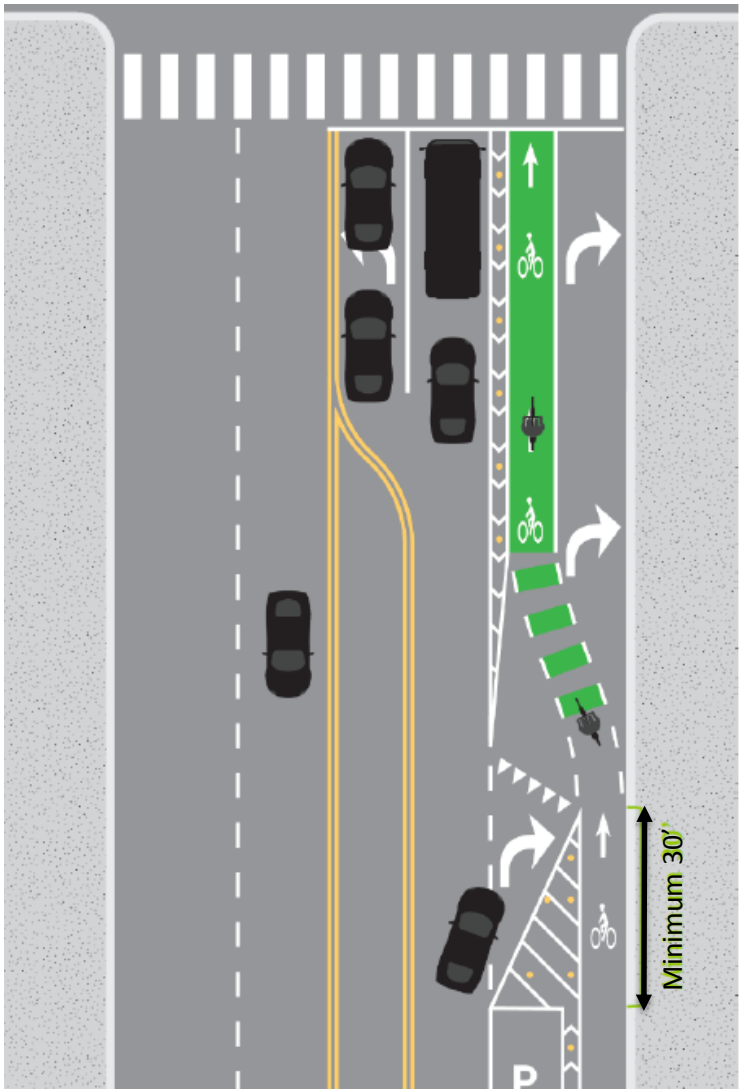
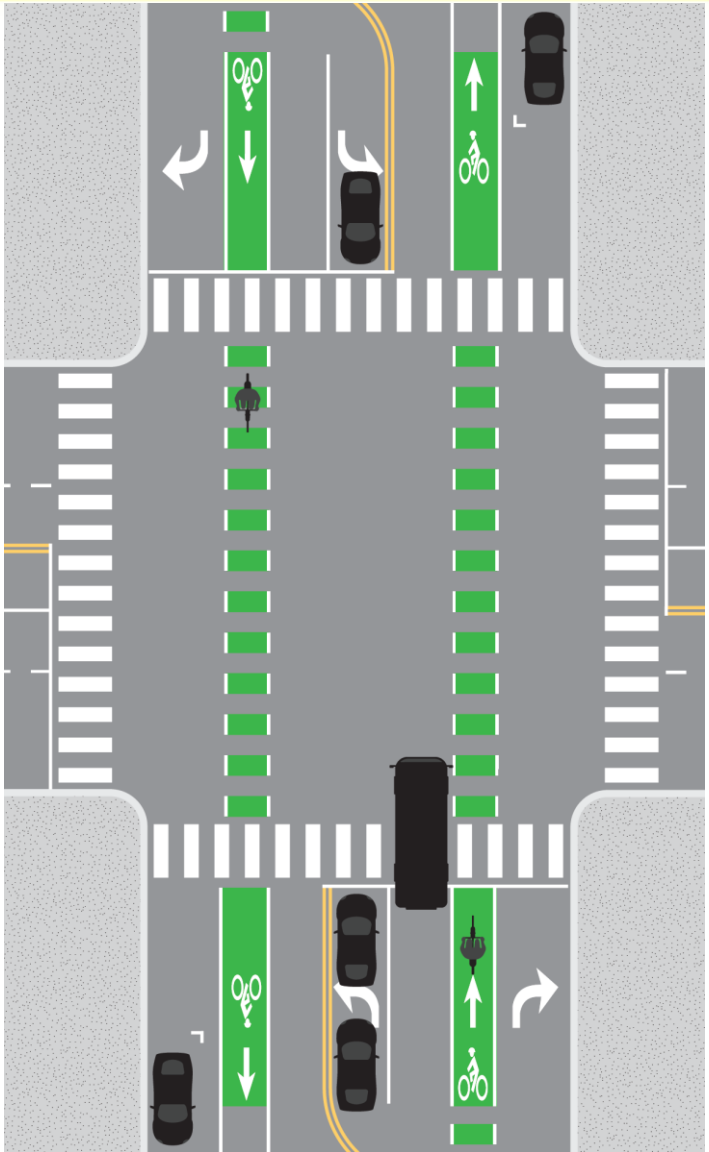


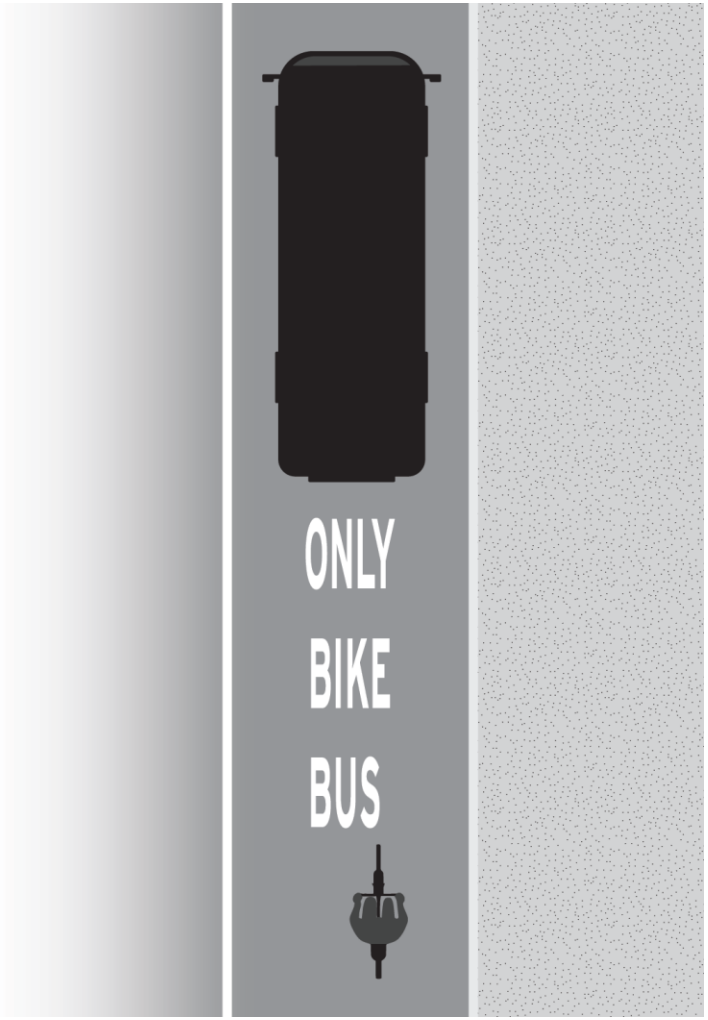
Guide riders through intersections

6.



Clearly sign and stripe shared bus-bike lanes

7.



Use left-sided bikeways on one-way streets

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Training Recommendations

Does your training address bike/bus?

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1) Improve specificity on bike-bus interactions
2) Help operators understand the perspectives of riding bikes in traffic
3) Provide mechanisms for peer-sharing about changing road infrastructure and bike-bus interaction

Improving the bike/bus interface …a win/win!

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Thank you!

Metro

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