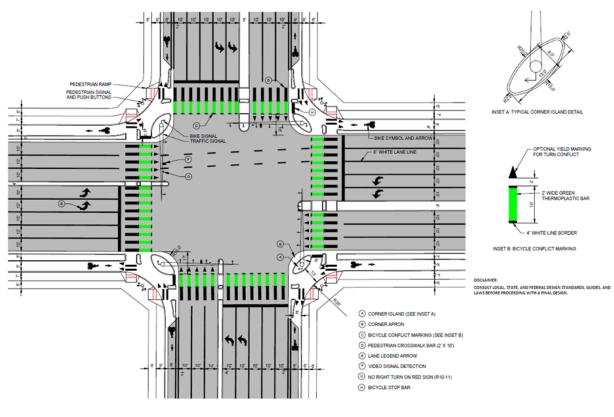
INNOVATIVE INTERSECTION DESIGNS FOR PEDESTRIANS AND BICYCLISTS

Innovative intersection designs provide dedicated paths through the intersection for pedestrians and bicyclists. The bikeway is set back from the parallel motor vehicle traffic, which makes bicyclists more visible to turning drivers than in a conventional intersection.

Corner islands are a key feature of the design. They create a bike queue area after the crosswalk and provide a place for bicyclists to wait.

This brochure provides three scenarios using innovative intersection design concepts.

SCENARIO 1: LARGE INTERSECTION WITH MEDIANS AND BIKE LANES ON ALL APPROACHES

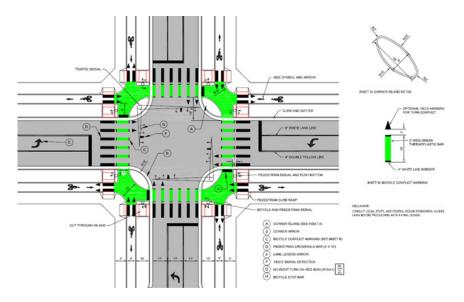


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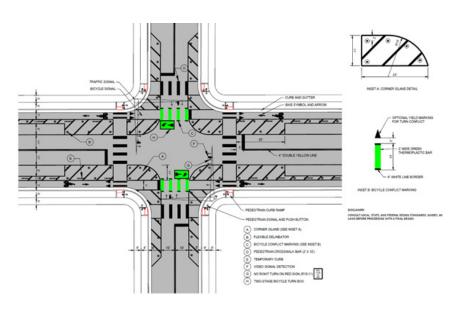
The graphics included in this brochure provide examples of different innovative intersection designs. Before implementing the designs, users should consult their local requirements for Americans with Disabilities Act features, for traffic control devices (e.g., the Federal Highway Administration's *Manual On Uniform Traffic Control Devices for Streets and Highways*¹), and so forth, as needed.

SCENARIO 2: SMALL INTERSECTION WITH BIKE LANES ON ALL APPROACHES



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SCENARIO 3: SMALL
INTERSECTION WITH
BIKE LANES ON MAJOR
APPROACHES ONLY



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FHWA RESEARCH CONTRACT

The Federal Highway Administration (FHWA) has sponsored a research project, entitled Safety Evaluations of Innovative Intersection Designs for Pedestrian and Bicyclists, under Contract No. DTFH61-16-D-00039. The overall project goal is a formal and comprehensive evaluation of select innovative intersection retrofitting designs aimed at improving the safety of pedestrians and bicyclists while maintaining an acceptable level of service to motorized traffic. FHWA is looking for agencies that are installing or have recently installed innovative intersections. The FHWA research team will then evaluate the traffic operational and safety effects of the treatment. If you wish to participate or need more information, please contact:

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1. Federal Highway Administration. 2012.

Manual on Uniform Traffic Control Devices
for Streets and Highways (2009 edition with
revisions 1 and 2 incorporated).

https://mutcd.fhwa.dot.gov/
pdfs/2009r1r2/mutcd2009r1r2edition.pdf,
last accessed August 27, 2021.

FHWA-HRT-21-097 HRDI-20/10-21(WEB)E

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