

Advisory Bike Lanes in Ann Arbor

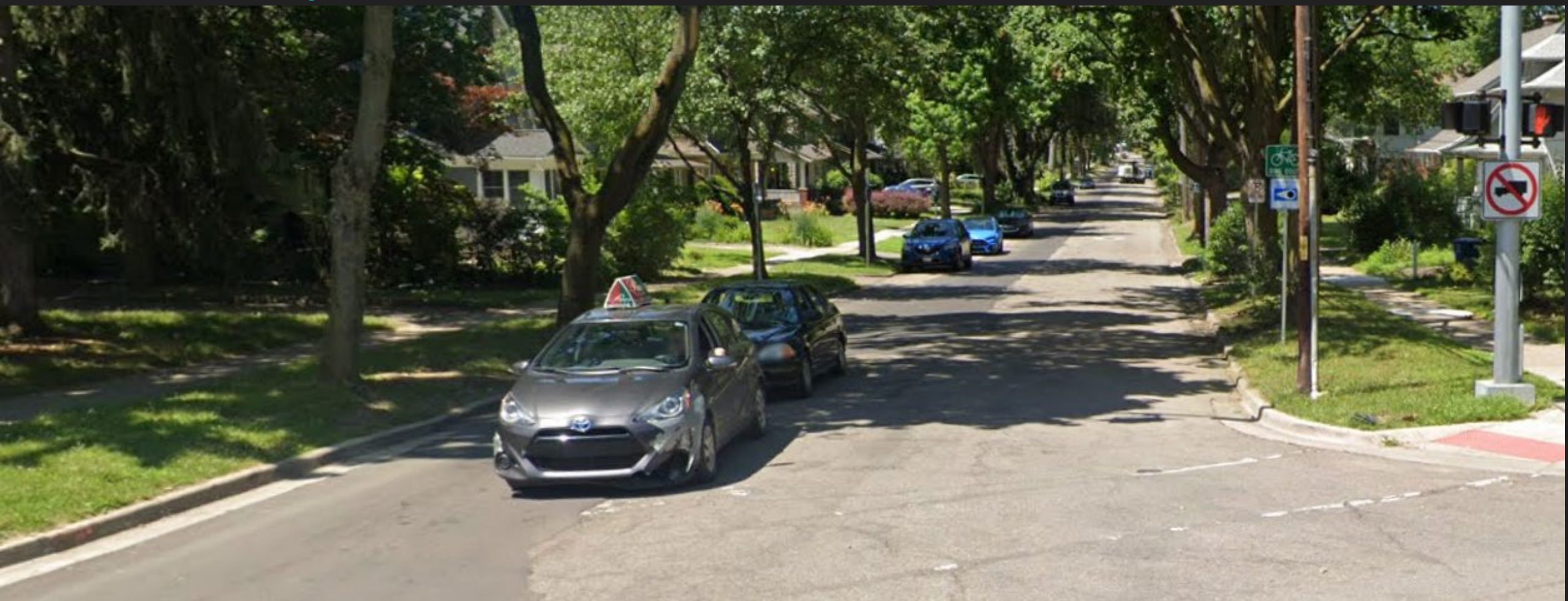


Raymond Hess,
Transportation Manager

.....
Transportation Commission
August 18, 2021

Imagine...

photo credit: Google Maps



Imagine...

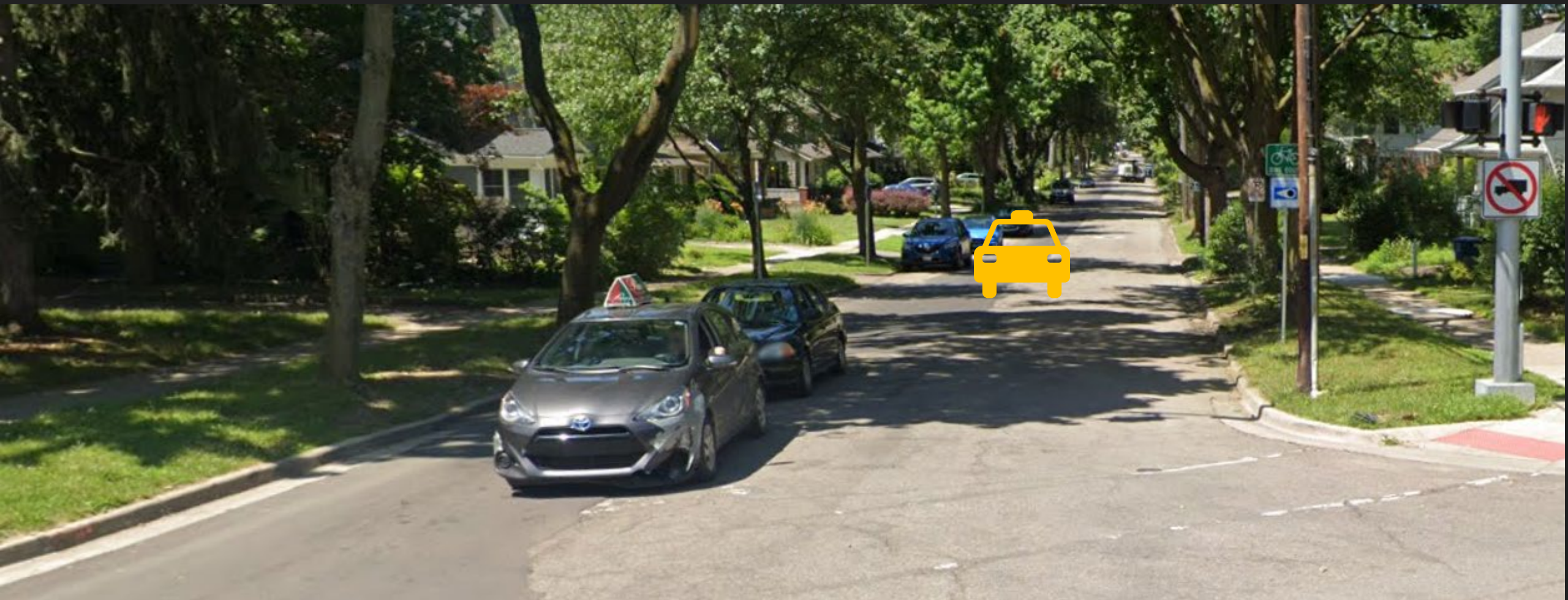


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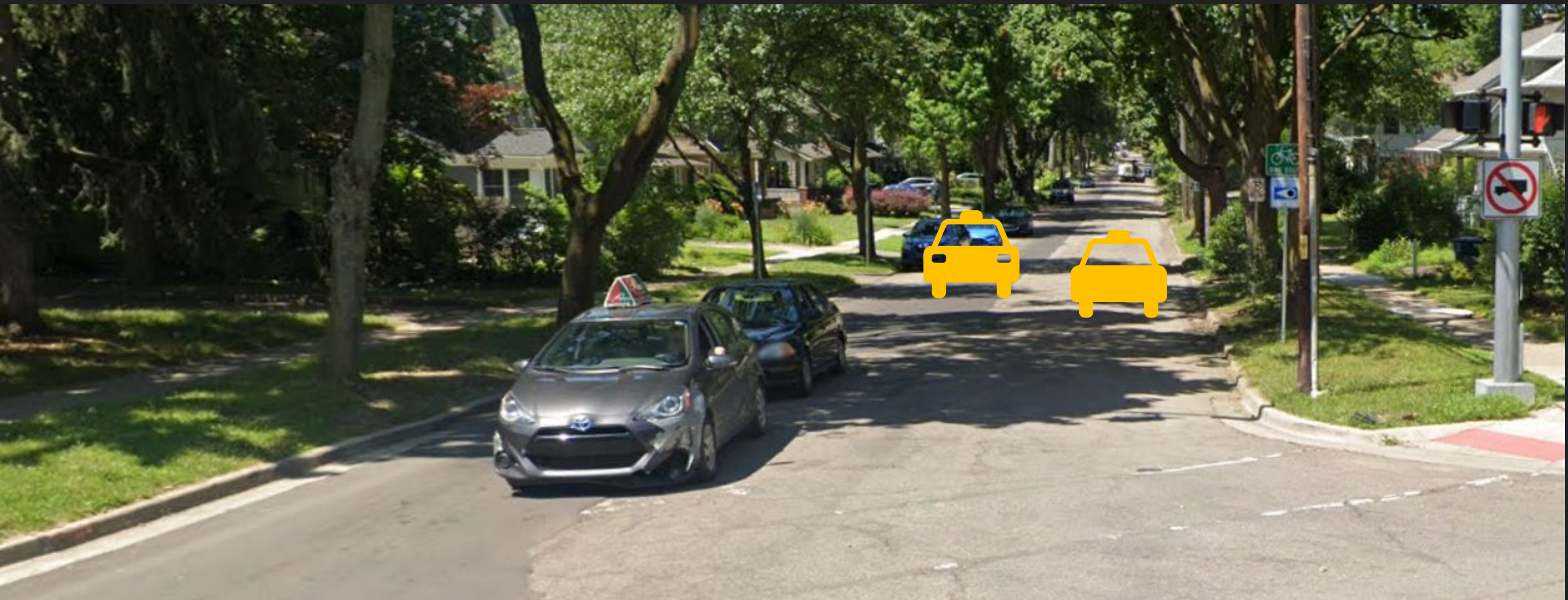
On-street Parking



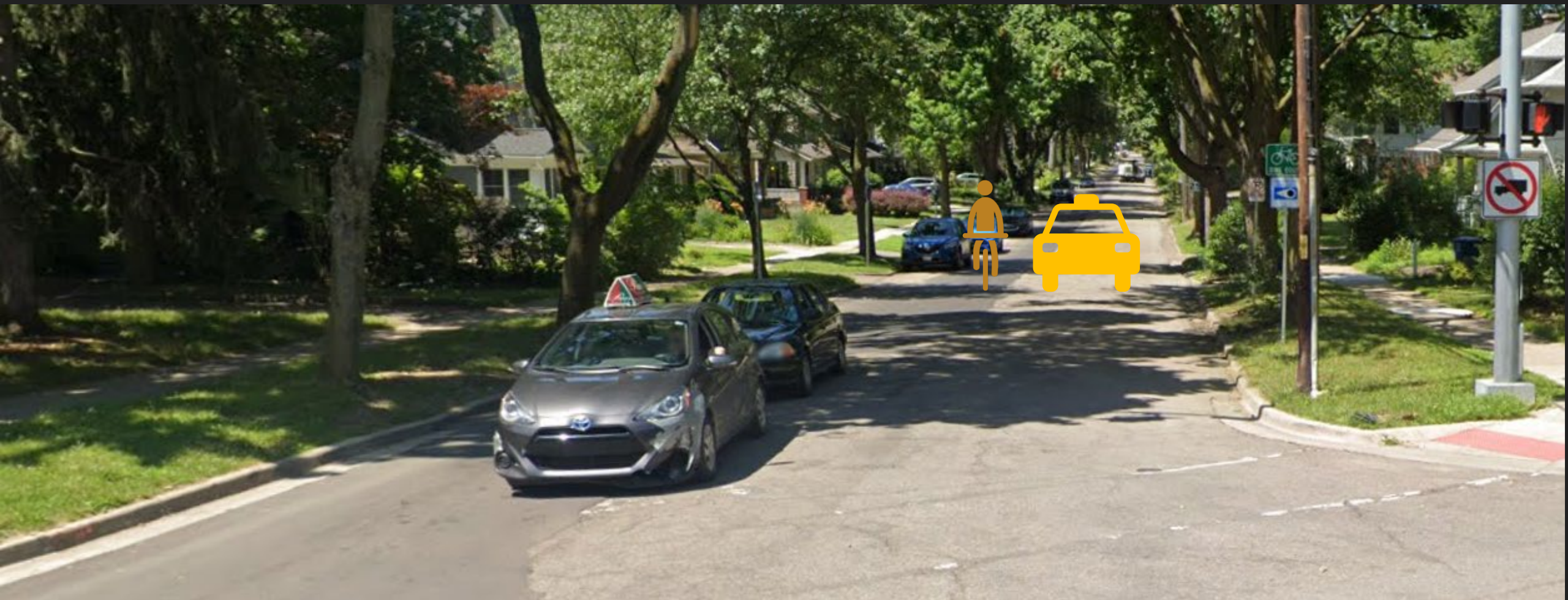
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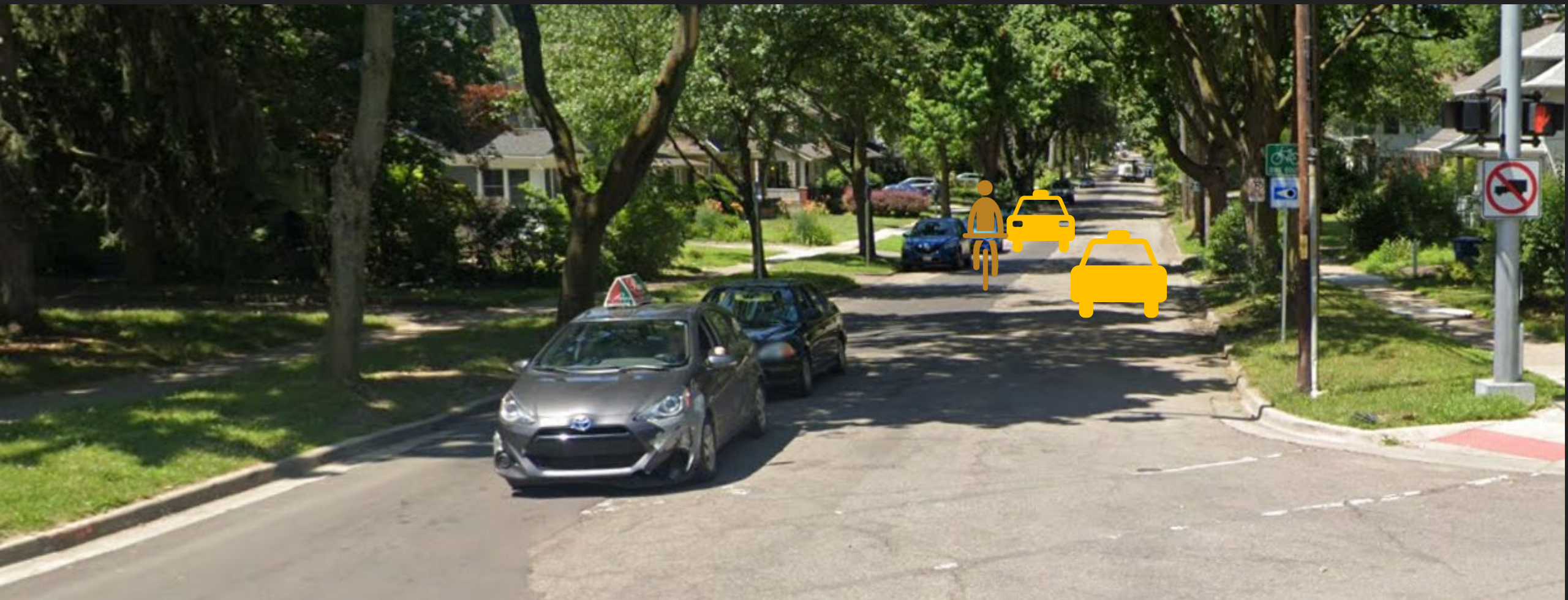
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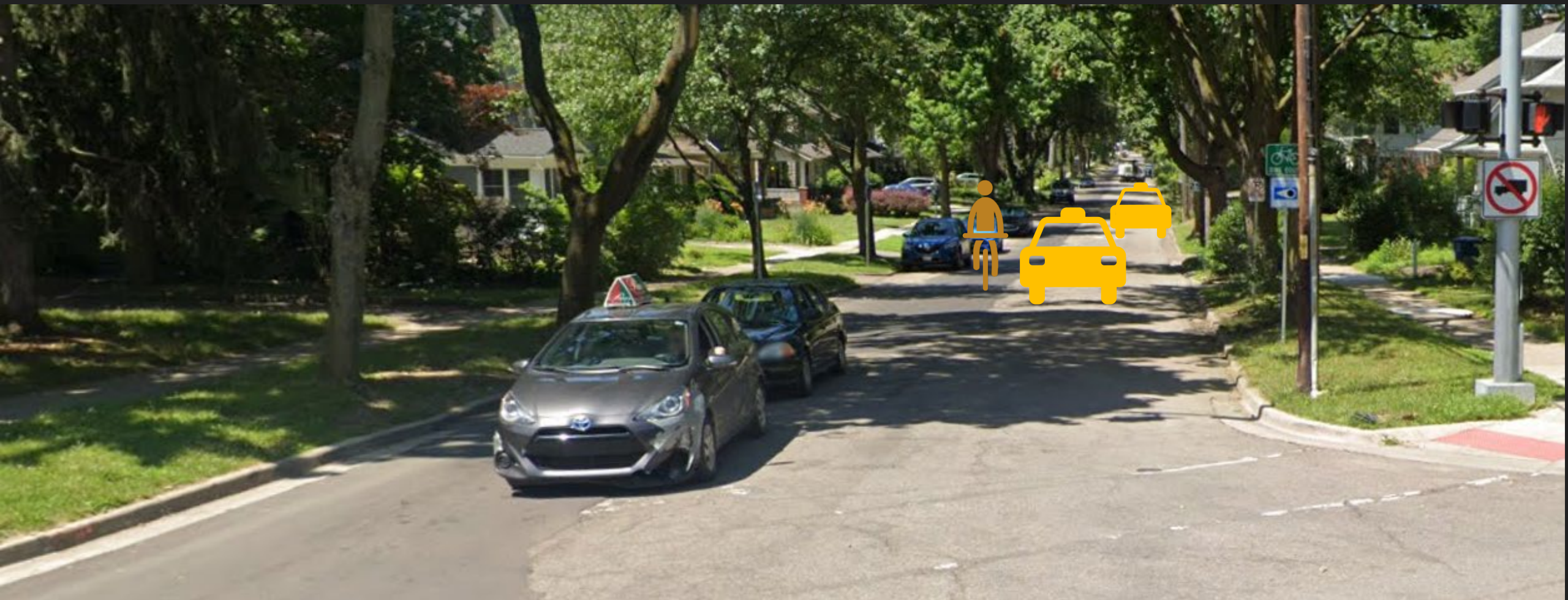
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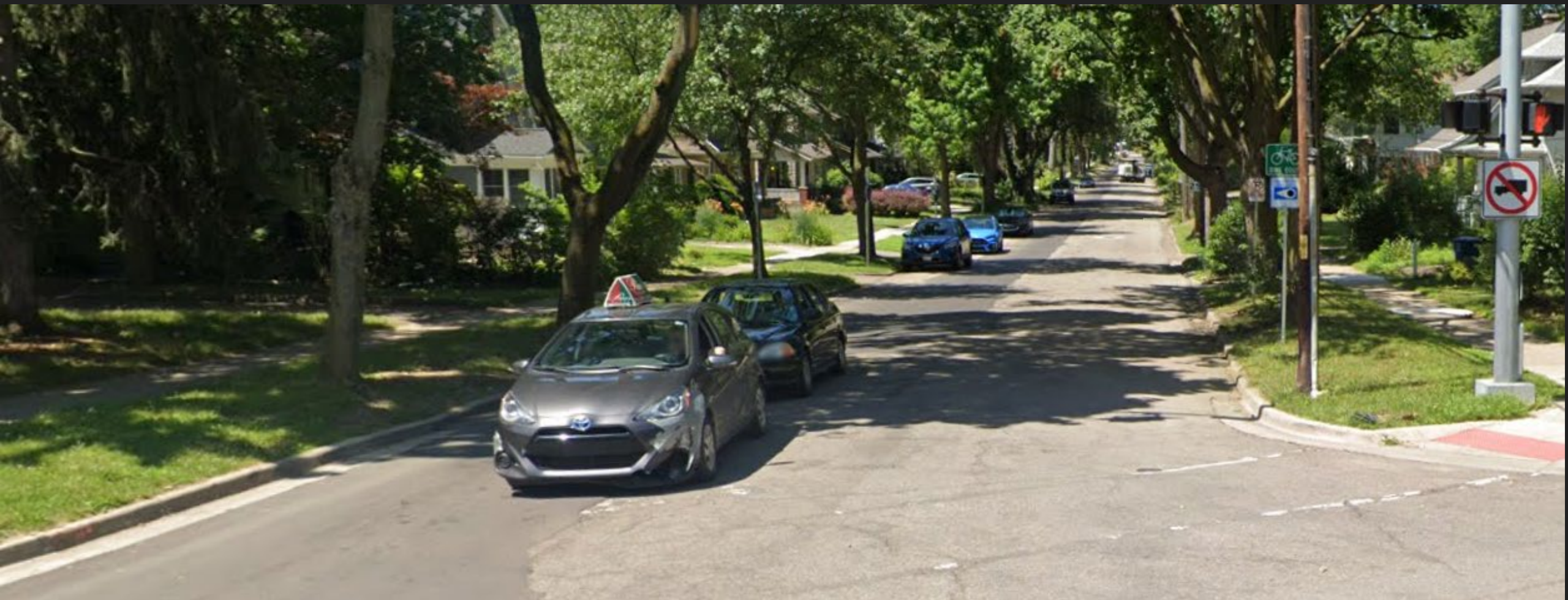
Imagine...



Imagine...



Imagine...



Imagine...

photo credit: Google Maps



Video

video credit: <https://youtu.be/0zdDivKXMxY>



It is a whole new way for drivers and cyclists to share the road.



What are they?

credit: ITE Journal December 2019 (https://staging.nxtbook.com/ygsreprints/ITE/ITE_December2019/index.php#/p/44)

- “A single center lane which supports two-way motor vehicle travel and an edge lane on either side, preferentially reserved for one-way use by vulnerable road users”
- Also called *Edge Lane Roads* or *Advisory Shoulders*

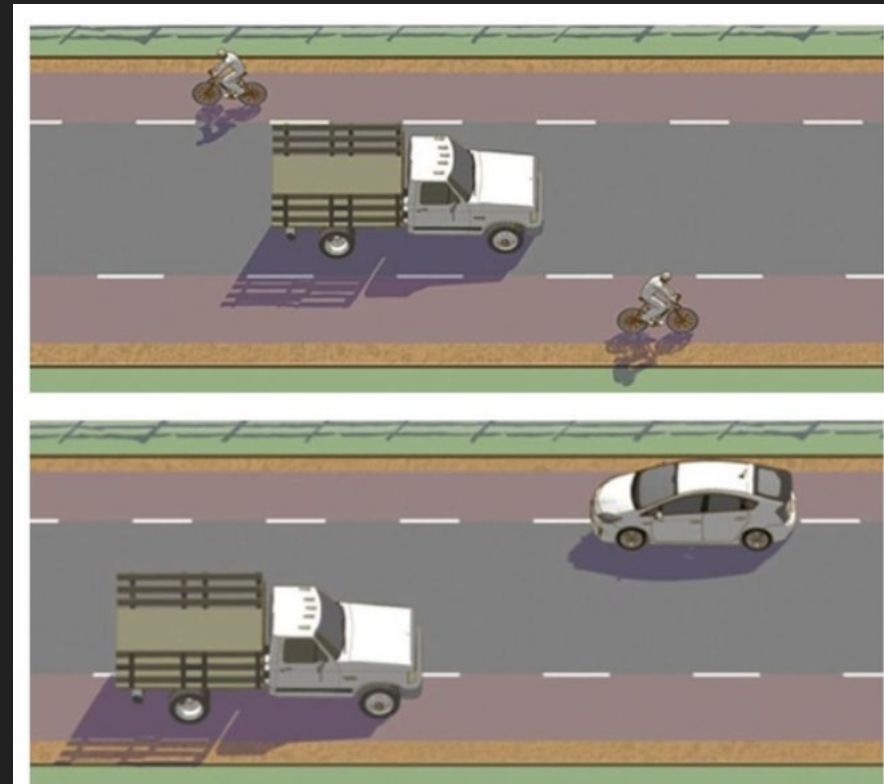


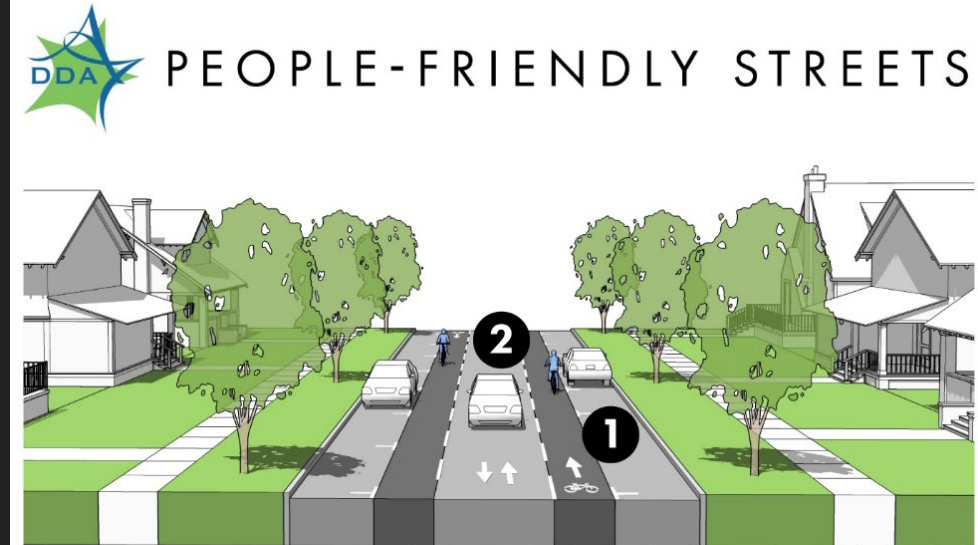
Figure 1a-b. ELR Operation from the FHWA Small Town and Rural Multimodal Networks Guide.

Where could they be installed?

credit: ITE Journal December 2019 (https://staging.nxtbook.com/vasreprints/ITE/ITE_December2019/index.php#p/44)
& https://www.peoplefriendlystreets.org/wp-content/uploads/2019/08/WilliamStreetBikeway_Overview.jpg?13a938&13a938

Typically:

- Lower posted speed limit streets (25mph)
- Lower volume streets (<6,000 ADT)
- Shorter segments or important connections (< 1 mi long)
- Narrower streets (≤ 30 ft wide)



1

WILLIAM STREET ADVISORY BIKE LANES

- Advisory bike lanes are dashed bike lanes that allow bike lanes on narrow streets.
- Advisory Bike Lanes will be installed on William Street west of First Street in residential areas.

2

SHARING THE ROAD & YIELDING

- Two-way car traffic drives towards the center of the street, just like other narrow residential streets.
- When there is on-coming car traffic, people in cars move into the bike lane to safely pass, yielding to people on bikes.

What are the benefits?

credit: ITE Journal December 2019 (https://staging.nxtbook.com/ygsreprints/ITE/ITE_December2019/index.php#/p/44)

Generally (based on 6 North American deployments):

- A reduction or no change in crash rate
- A reduction or no change in motor vehicle speed
- A reduction or no change in motor vehicle volume
- Mixed results with respect to bicycle volume changes
- Operate as intended
- Low cost

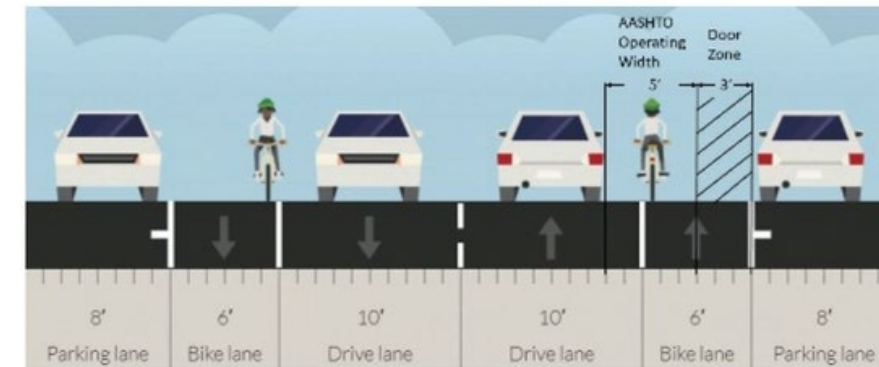


Figure 7. Door-Zone-Bicycle-Lane.

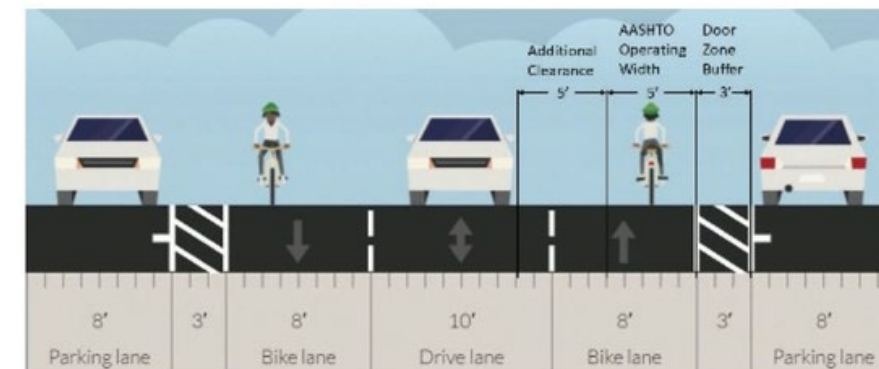


Figure 8. Edge lane road.

Where are they in Ann Arbor?

Summit

(between Beakes and Fifth):

- Connects Broadway/Beakes to Fifth, Wheeler Park, & Allen Creek Berm Opening



Where are they in Ann Arbor?

Granger

(between State and Packard):

- Connects bike facilities and campus to neighborhoods



Where are they in Ann Arbor?

William

(west of First):

- Extends People Friendly Street to the west



Where are they in Ann Arbor?

First

(south of William):

- Extends People Friendly Street to the south



Additional Resources:

- Ann Arbor's Website:

- <https://www.a2gov.org/departments/engineering/transportation/Pages/Advisory-Bike-Lanes.aspx>

- ITE Journal Article:

- https://staging.nxtbook.com/ygsreprints/ITE/ITE_December2019/index.php#/p/44

- Alta Planning and Design White Paper:

- https://altago.com/wp-content/uploads/Advisory-Bike-Lanes-In-North-America_Alta-Planning-Design-White-Paper.pdf

Questions?



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