Section 8
CASE STUDIES

The purpose of this section is to present case studies where various toolbox elements are applied to typical locations throughout the Project Corridor.

Case studies were prepared at the following types of locations along the Project Corridor:

- Major intersection
- Minor intersection
- Freeway ramp intersection
- 6-lane roadway segment
- 8-lane roadway segment

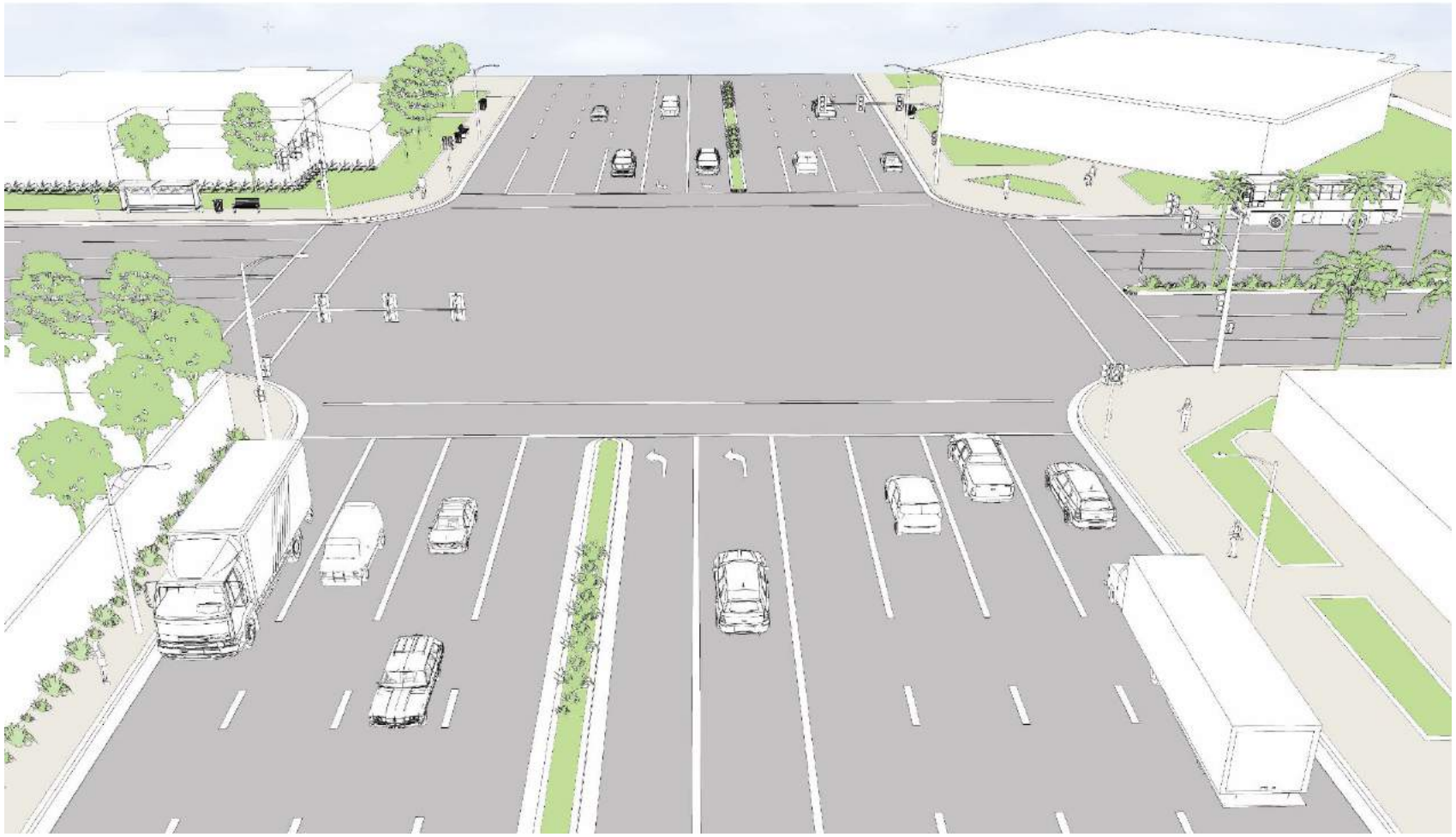
The case study location types were chosen to represent various intersection and roadway segments experienced throughout the Project Corridor and would present opportunities for implementation of different toolbox elements. Information on the case studies is presented below:

- **Major Intersection:** These represents the intersection of Beach Boulevard with another high-volume arterial. These locations are expected to have significant turn volumes to and from the Project Corridor and would have dual left-turn lanes. The intersections are also expected to have a major transit stop and thus are the locations for a transfer point for crossing lines. Therefore, these intersections could be candidates for advanced vehicular and transit throughput as well as transit stop improvements.
- **Minor Intersection:** Minor intersections represent signalized intersections with smaller collector roads, residential streets or communities, and entrances to commercial or institutional uses. These smaller intersections would be smaller on the crossing legs and could be candidates for various pedestrian safety and transit throughput improvements.
- **Freeway Ramp Intersection:** The Project Corridor is traversed by four freeways with multiple ramp configurations. These intersections would have significant volumes entering and exiting the Project Corridor. As freeway ramps are primarily designed to effectively move volumes to and from the freeway, these locations could be candidates for improvements that would decrease delay along the Project Corridor and increase safety for pedestrians crossing the various ramps.

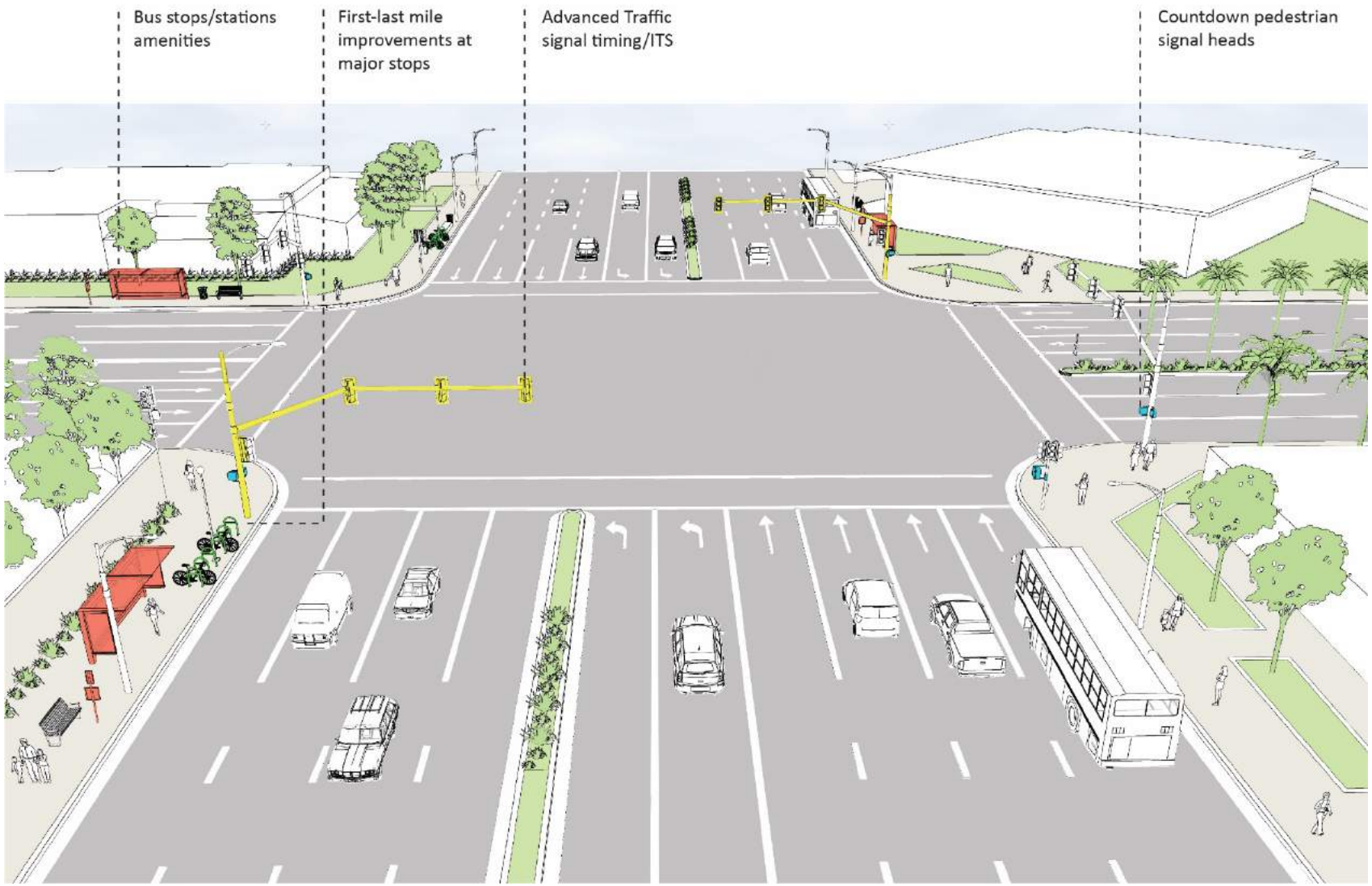
- **6-Lane Roadway Segment:** The 6-lane roadway segments represent one of the two roadway segment configurations along the Project Corridor, primarily located at the south and north ends. These segments could be candidates for mobility and safety improvements geared towards pedestrians.
- **8-Lane Roadway Segment:** The 8-lane roadway segment represents the other roadway segment configuration along the Project Corridor. These segments could be candidates for advanced corridor management improvements, as well as improvements to pedestrian and bicycle environments. These segments also present more opportunity for lane reduction improvements due to the wider curb-to-curb distances.

8.1 CASE STUDY 1 – MAJOR INTERSECTION

Major Intersection - Before

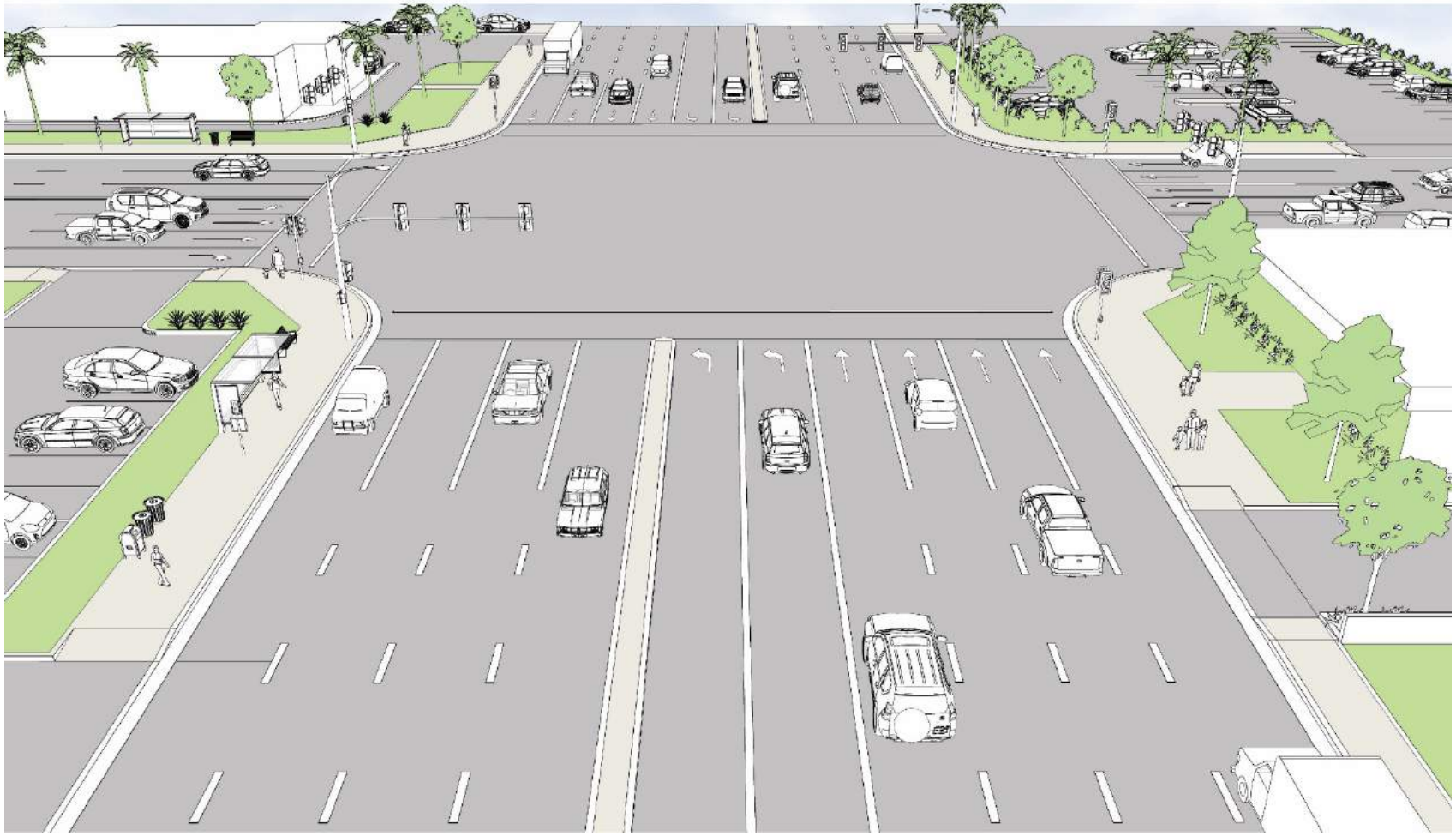


Major Intersection - After

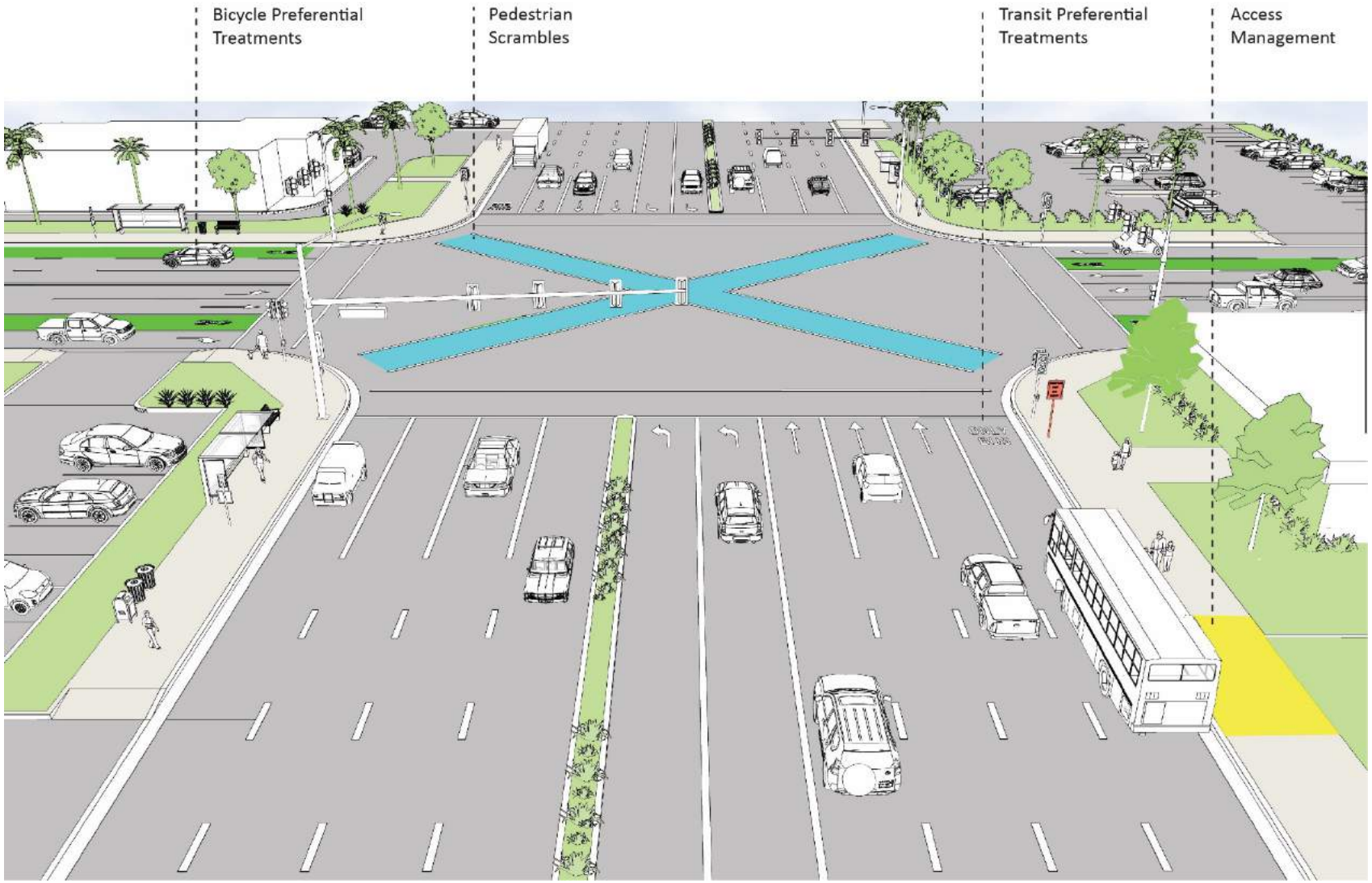


8.2 CASE STUDY 2 – MINOR/RESIDENTIAL INTERSECTION

Minor Intersection - Before

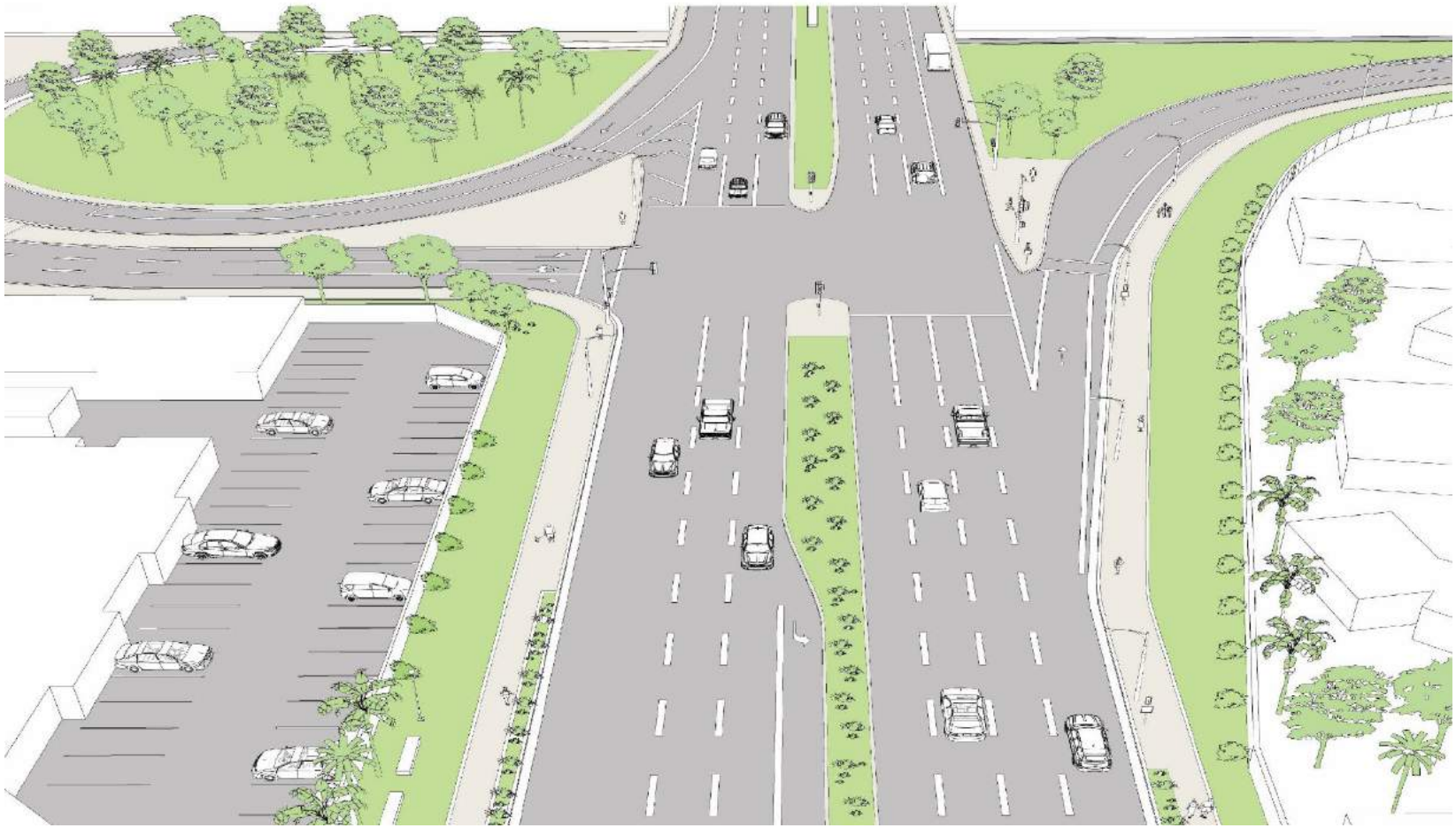


Minor Intersection - After

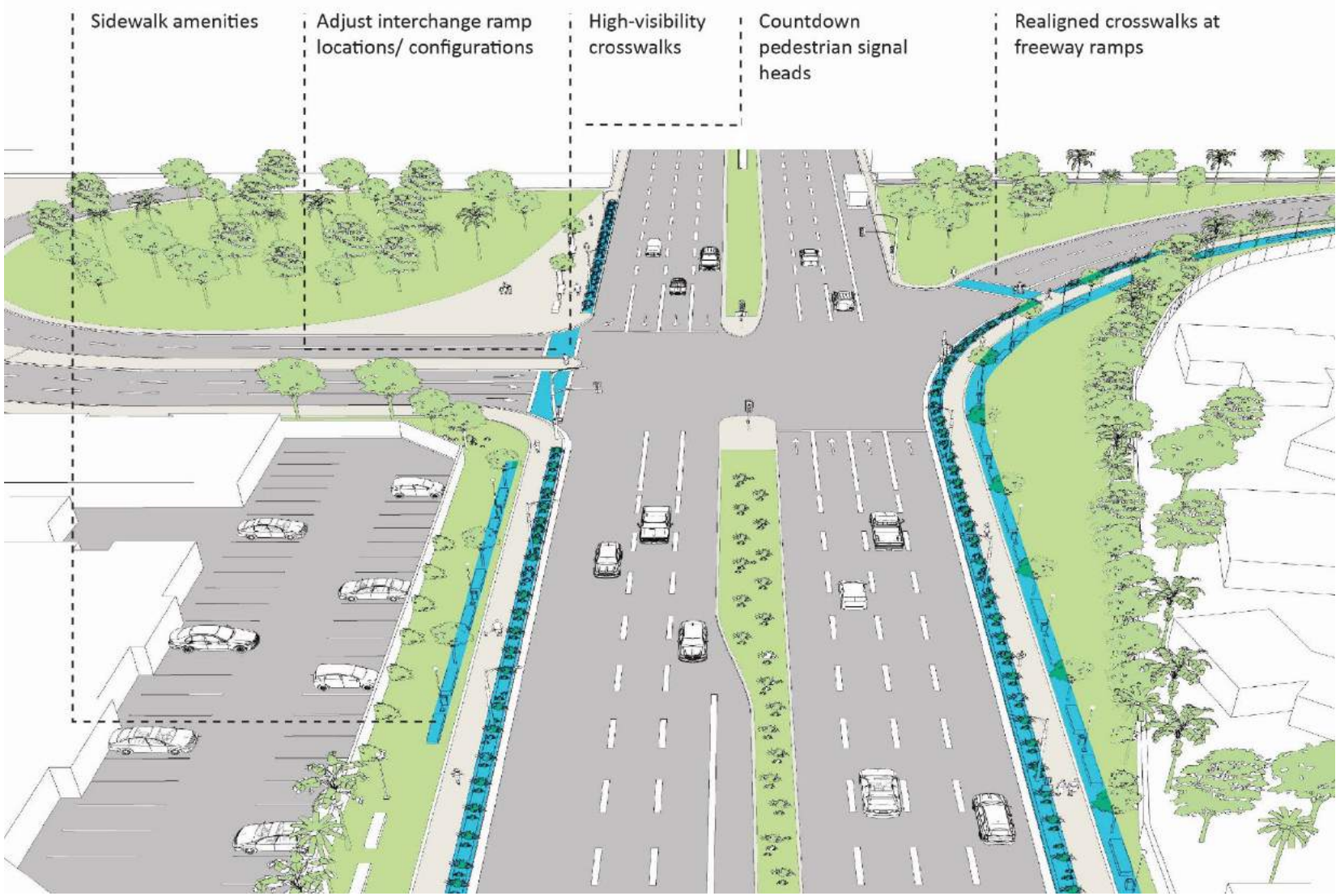


8.3 CASE STUDY 3 – FREEWAY RAMP INTERSECTION

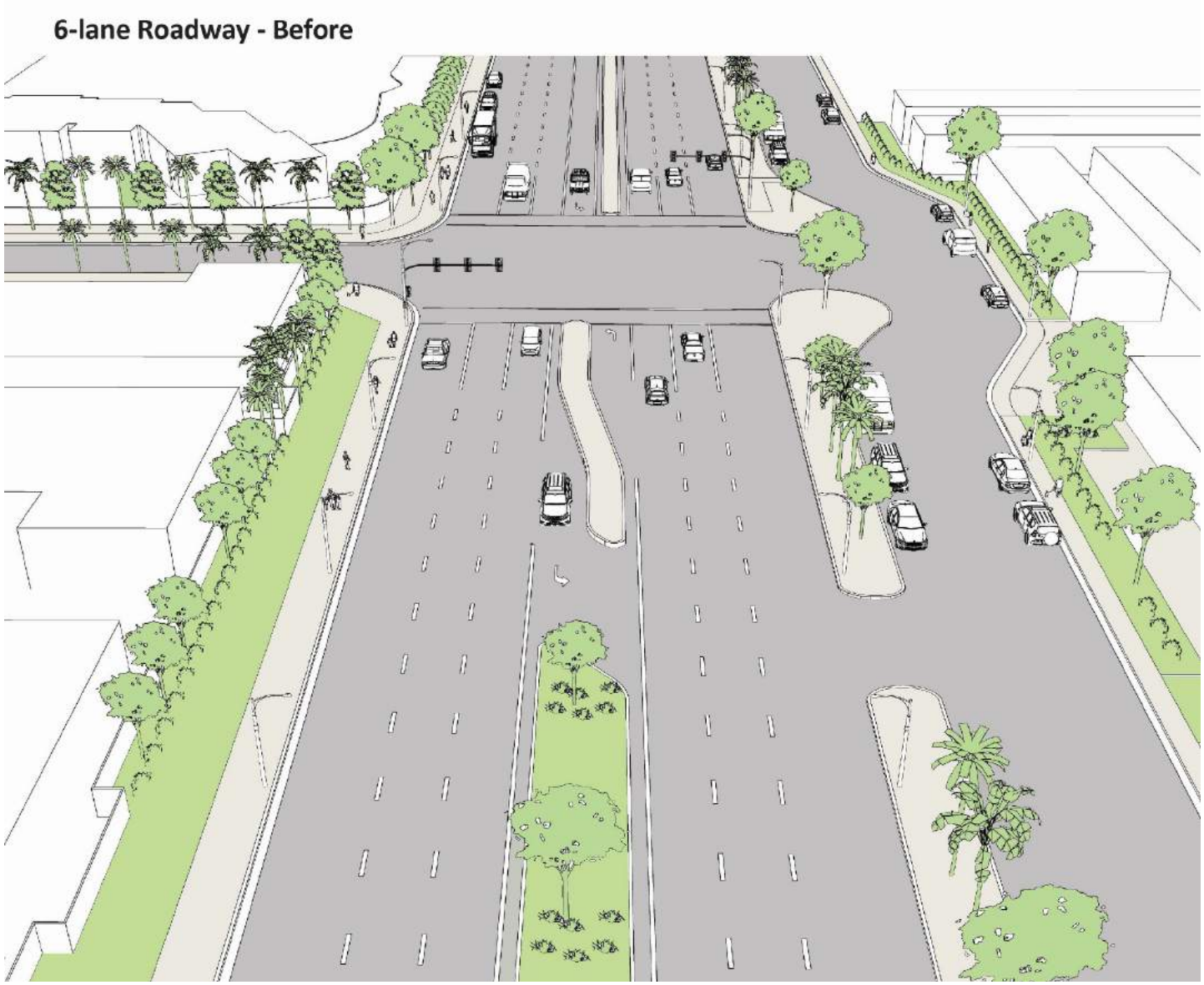
Freeway Ramp Intersection - Before



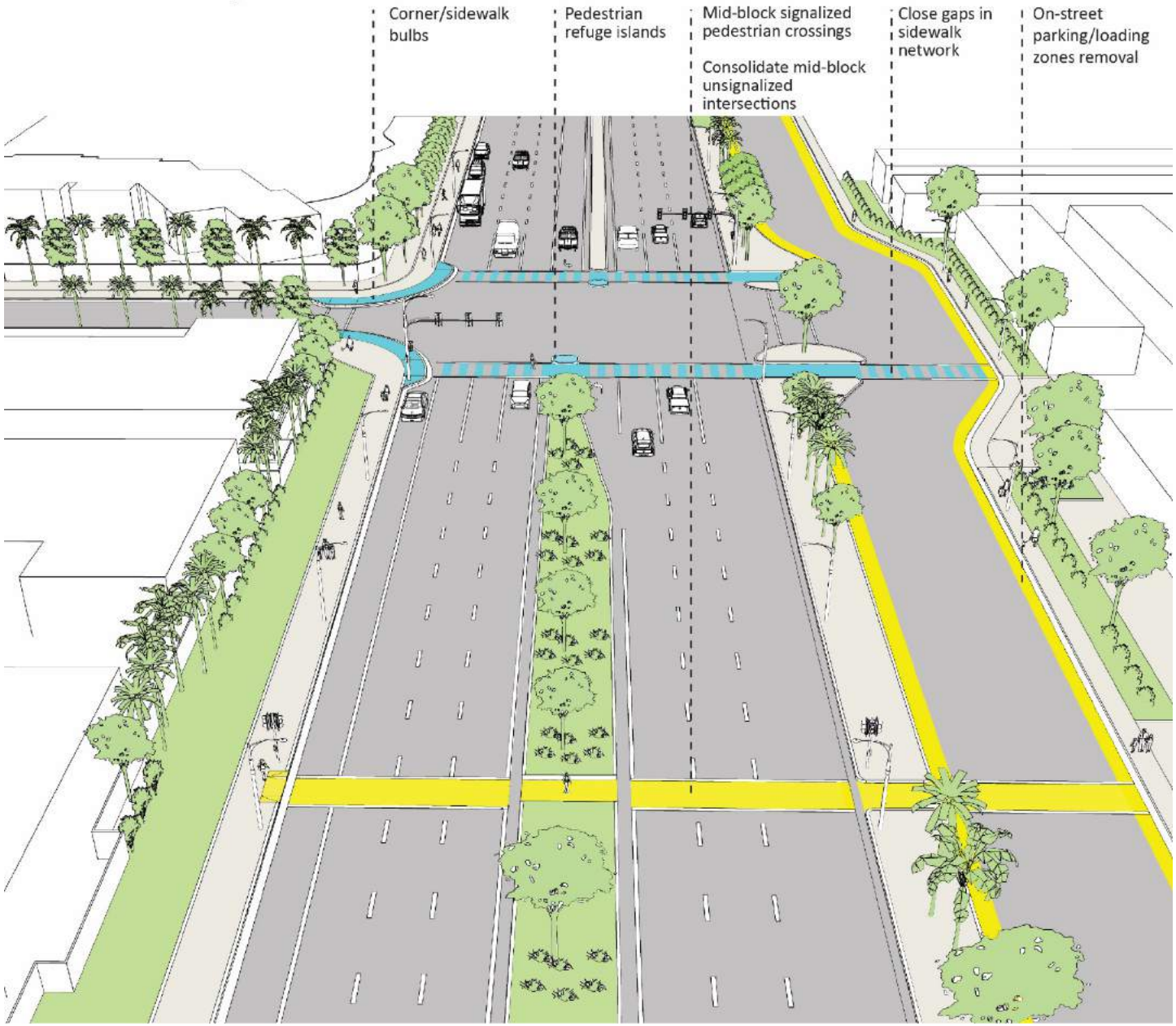
Freeway Ramp Intersection - After



8.4 CASE STUDY 4 – 6-LANE ROADWAY SEGMENT

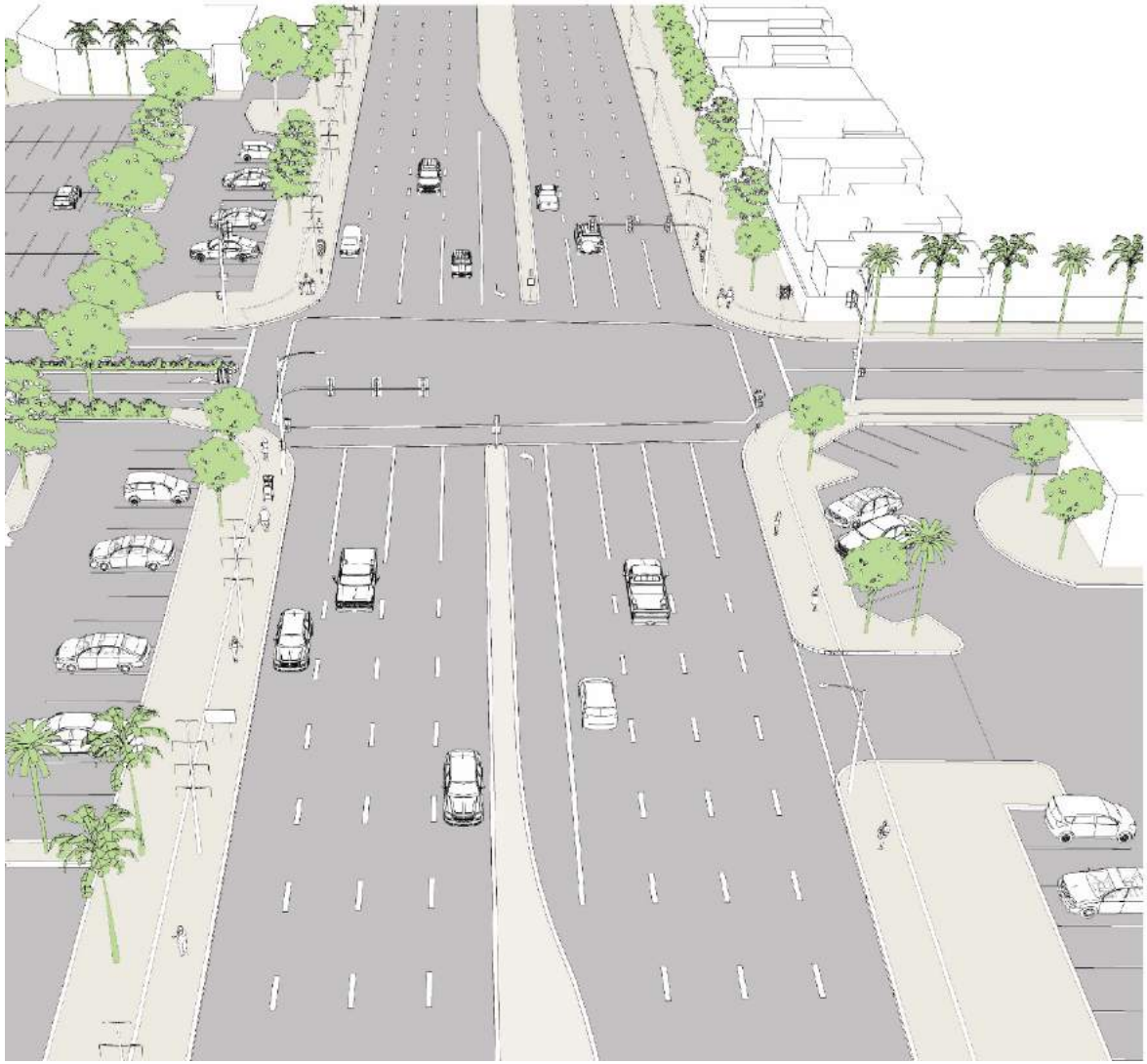


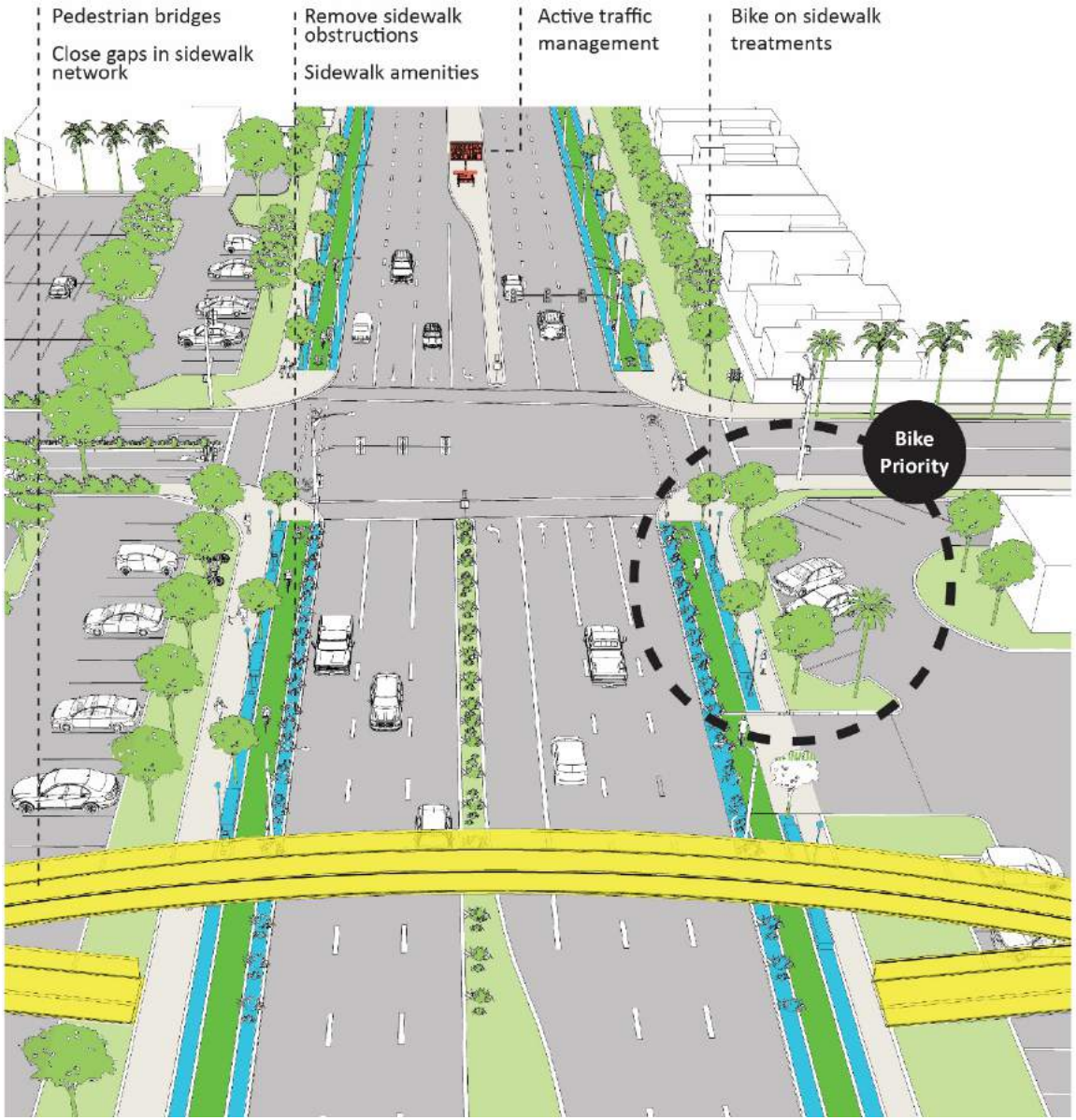
6-lane Roadway - After



8.5 CASE STUDY 5 – 8-LANE ROADWAY SEGMENT

8-Lane Roadway - Before





8-Lane Roadway - After