



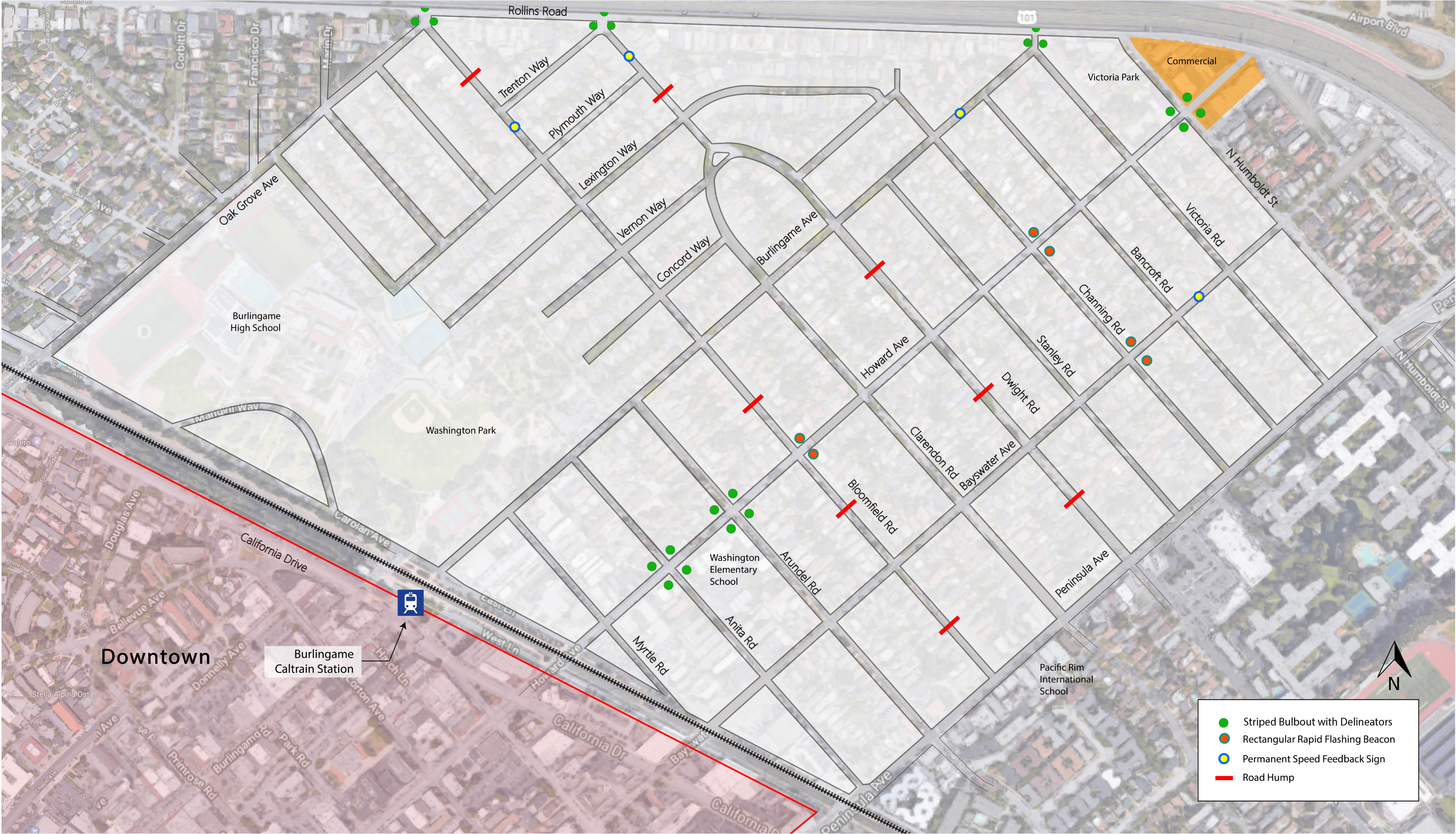


REFINED SOLUTIONS (PHASE 1).....





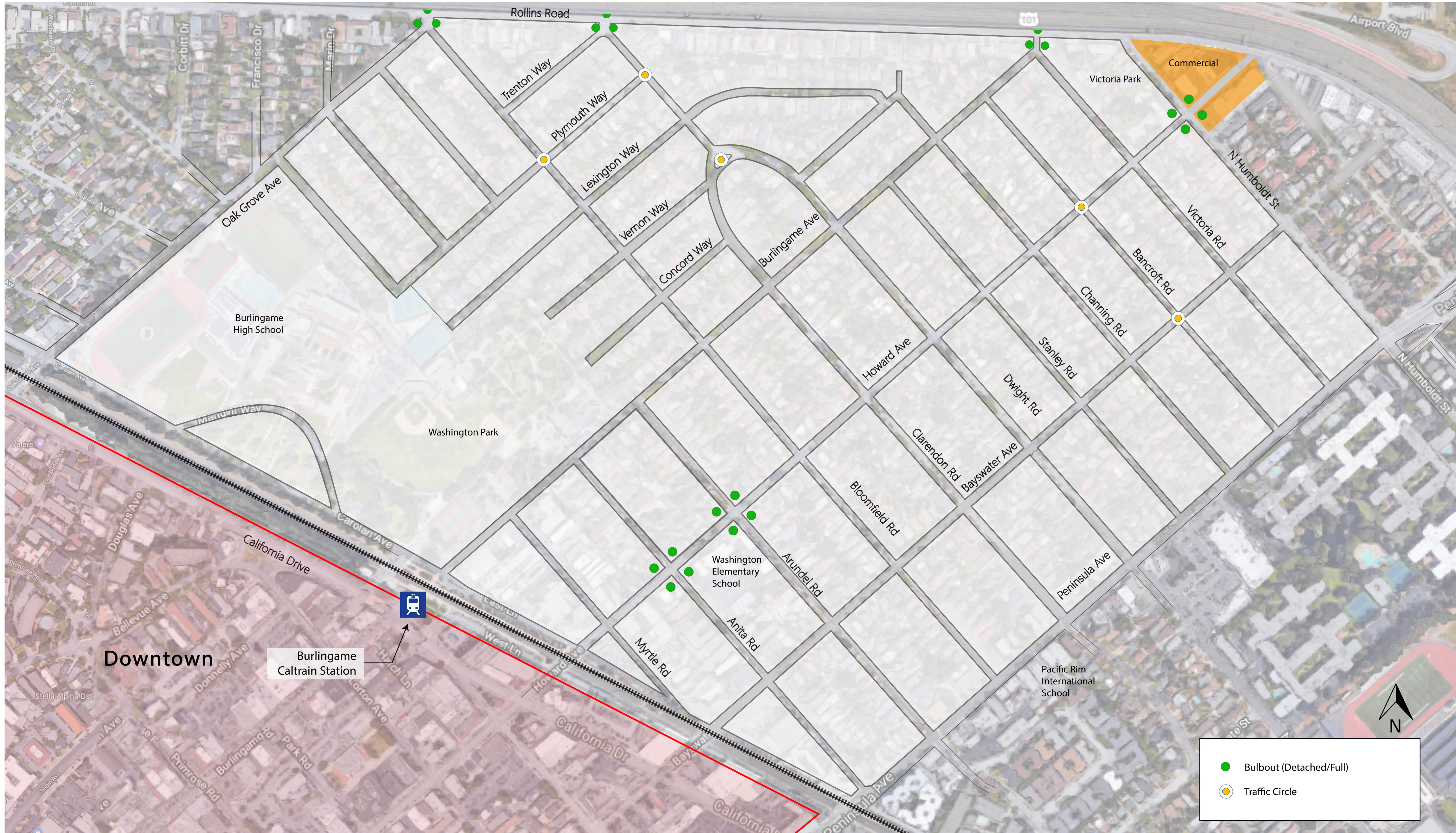
REFINED SOLUTIONS (PHASE 2)



- Striped Bulbout with Delineators
- Rectangular Rapid Flashing Beacon
- Permanent Speed Feedback Sign
- Road Hump



REFINED SOLUTIONS (PHASE 3).....





VICTORIA PARK (EAST OF DWIGHT)

REFINED SOLUTIONS (PHASE 1 + 2 + 3)



Phase 1 Improvements

- Red Curb Extension
- Median Island
- Trial Traffic Circle
- High Visibility Crosswalk (Yellow)
- High Visibility Crosswalk (White)
- Trial Road Hump
- Centerline/Parking Lane Marking

Phase 2 Improvements

- Striped Bulbout with Delineators
- Rectangular Rapid Flashing Beacon
- Permanent Speed Feedback Sign
- Road Hump

Phase 3 Improvements

- Bulbout (Detached/Full)
- Traffic Circle



LYON-HOAG (WEST OF DWIGHT ROAD)

REFINED SOLUTIONS (PHASE 1 + 2 + 3)



Phase 1 Improvements

- Red Curb Extension
- Median Island
- Trial Traffic Circle
- High Visibility Crosswalk (Yellow)
- High Visibility Crosswalk (White)
- Trial Road Hump
- Centerline/Parking Lane Marking

Phase 2 Improvements

- Striped Bulbout with Delineators
- Rectangular Rapid Flashing Beacon
- Permanent Speed Feedback Sign
- Road Hump

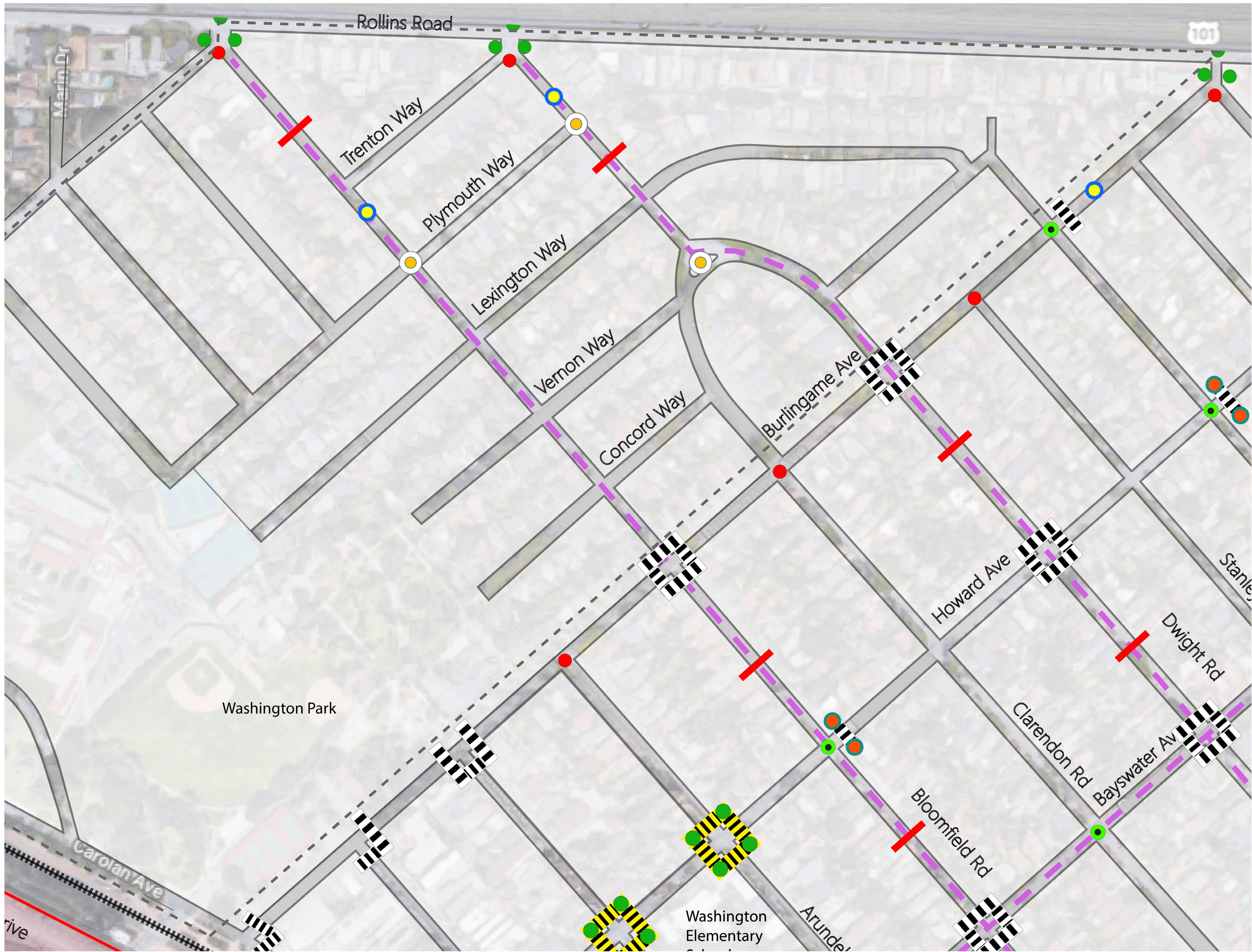
Phase 3 Improvements

- Bulbout (Detached/Full)
- Traffic Circle



OAK GROVE MANOR

REFINED SOLUTIONS (PHASE 1 + 2 + 3)



Phase 1 Improvements

- Red Curb Extension
- Median Island
- Trial Traffic Circle
- High Visibility Crosswalk (Yellow)
- High Visibility Crosswalk (White)
- Trial Road Hump
- Centerline/Parking Lane Marking

Phase 2 Improvements

- Striped Bulbout with Delineators
- Rectangular Rapid Flashing Beacon
- Permanent Speed Feedback Sign
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Phase 3 Improvements

- Bulbout (Detached/Full)
- Traffic Circle



TRAFFIC CALMING MEASURES



Objectives: ● Lower Vehicle Speed ● Reduce Cut-Through Traffic ● Enhance Pedestrian Safety

Centerline/Parking Lane Marking ● ●



Pavement striping creates narrowed roadways to slow vehicle speeds.

Pros

- Slows vehicle speeds
- Does not allow emergency vehicles

Cons

- Requires periodic maintenance

Red Curb Extension ●



Painted red curb near crosswalks, or locations that have limited sight distance.

Pros

- Provides clearance where appropriate, e.g., crosswalks, intersection

Cons

- Not aesthetically appealing
- Reduced parking supply

Permanent Speed Feedback Sign ●



Portable speed detection with screen showing current speed of oncoming vehicles.

Pros

- Heightens awareness of traveling speed
- Low cost with high benefit

Cons

- Little benefit once removed
- Less effective without enforcement

Rectangular Rapid Flashing Beacon ●



A pedestrian crossing warning sign with yellow flashing lights, activated by pedestrian push buttons.

Pros

- Increases awareness of pedestrian crossing
- Lower cost than lighted crosswalk

Cons

- Requires periodic maintenance

High Visibility Crosswalk (White) ●



Wide and ladder style crosswalks at intersections or mid-block crossing locations.

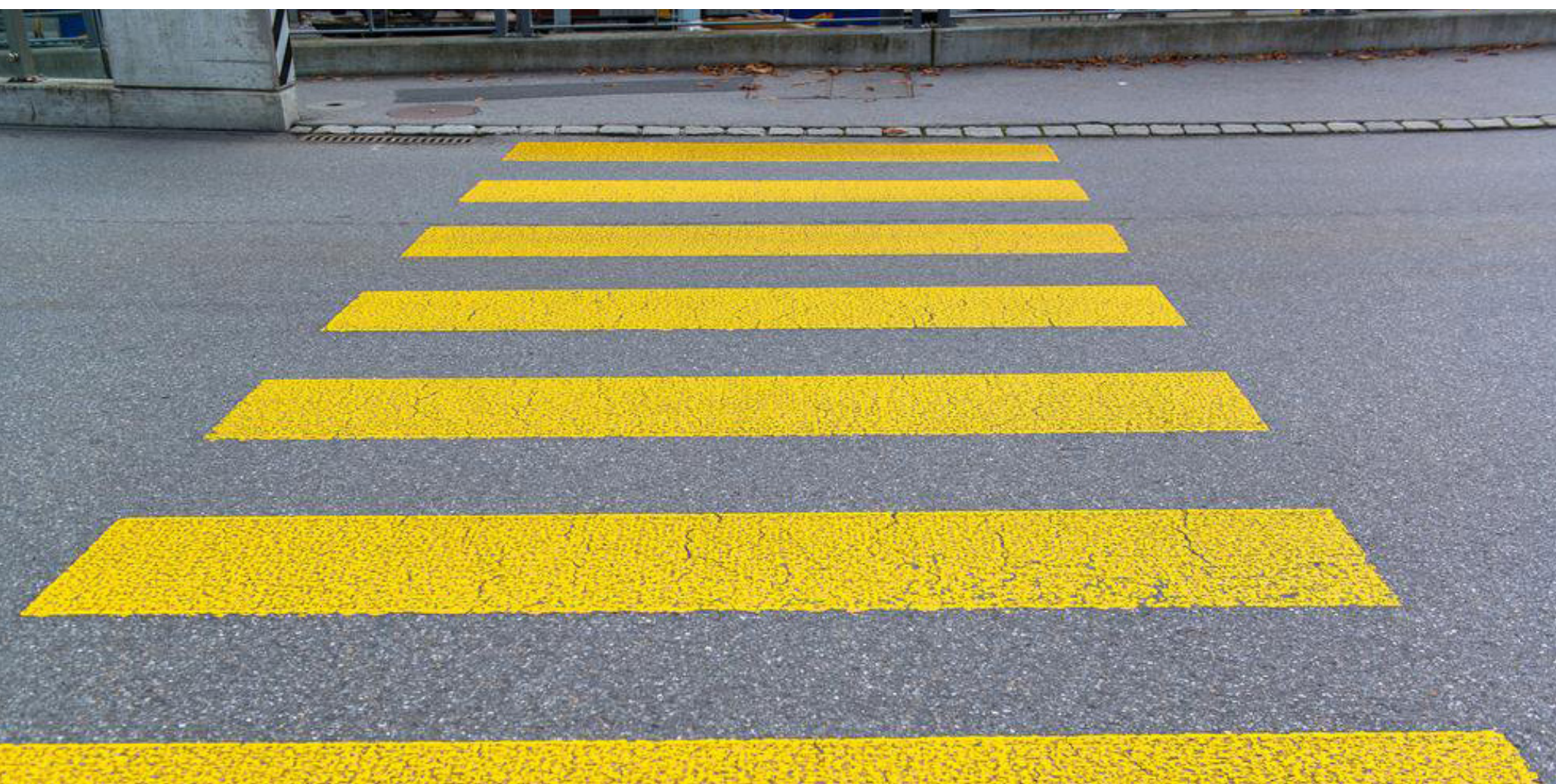
Pros

- Heightens awareness of pedestrians
- Slows vehicle speeds approaching crosswalks
- Increases visibility during night-time

Cons

- Creates false sense of pedestrian security

High Visibility Crosswalk (Yellow) ●



Wide and ladder style crosswalks at intersections or mid-block crossing locations, highlighted to denote that school is nearby.

Pros

- Heightens awareness of pedestrians near school zone
- Slows vehicle speeds approaching crosswalks
- Increases visibility during night-time

Cons

- Creates false sense of pedestrian security

Median Choker ● ●



Striped island at a pedestrian crossing location that reduces width of road at intersections.

Pros

- Reduces vehicle speeds
- Improves pedestrian crossing safety

Cons

- Requires periodic maintenance



TRAFFIC CALMING MEASURES



Objectives: ● Lower Vehicle Speed ● Reduce Cut-Through Traffic ● Enhance Pedestrian Safety

Trial Speed Bump



Permanent Speed Bump



Vertical pavement deflection that creates a 3.5 to 4-inch raise. Cutouts for emergency vehicle access.

Pros

- Reduces vehicle speeds
- Low cost with high benefit

Cons

- Potential vehicle damage when traveled at high speed

Trial Traffic Circle



Permanent Traffic Circle



Traffic Circles require drivers to slowly maneuver through an intersection.

Pros

- Slow vehicle speeds at intersection
- Lowers conflict of opposing traffic
- Provides opportunity for landscaping

Cons

- May impact emergency vehicle access
- Higher design and construction costs

Striped Bulbout with Delineators



Lower cost

Detached Bulbout



No Drainage Realignment

OR

Full Bulbout



Comprehensive and Permanent

Curb extensions at intersections to shorten pedestrian crossing distance and increase visibility.

Pros

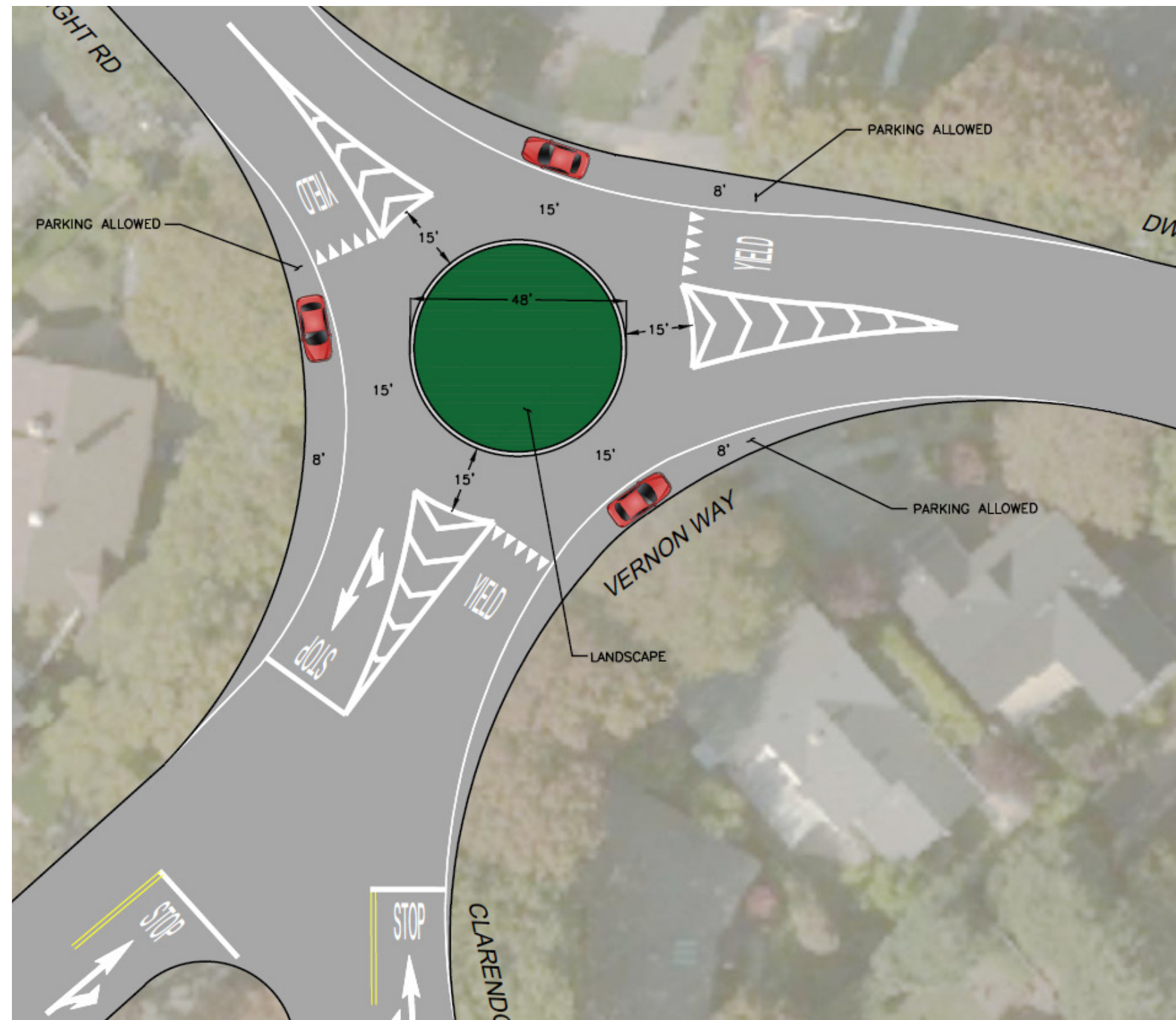
- Shortens pedestrian crossing distance
- Increases awareness of pedestrians
- Slows vehicle speeds at intersection

Cons

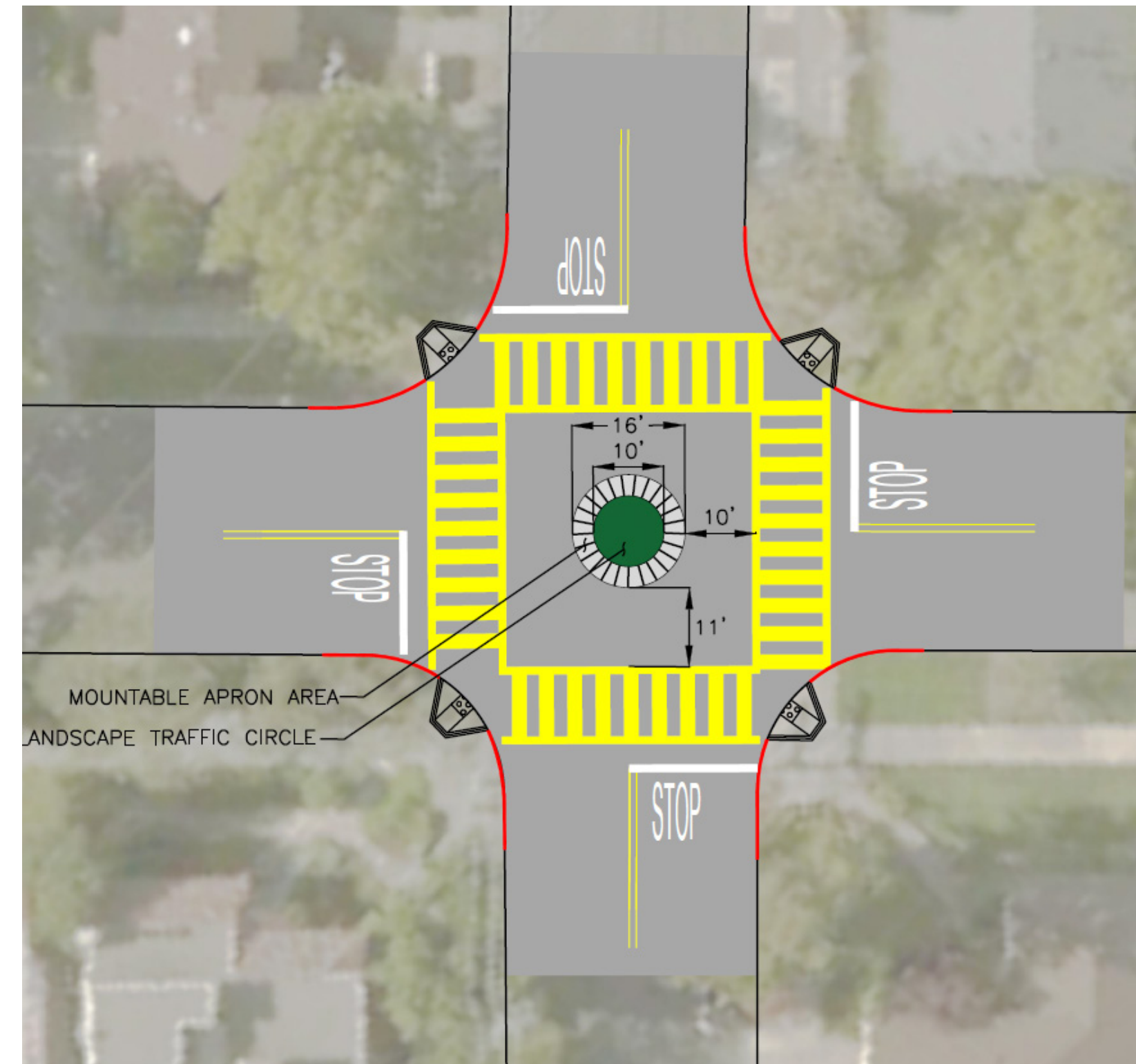
- May impact emergency vehicle access
- Higher design and construction costs



SAMPLE DESIGN CONCEPTS

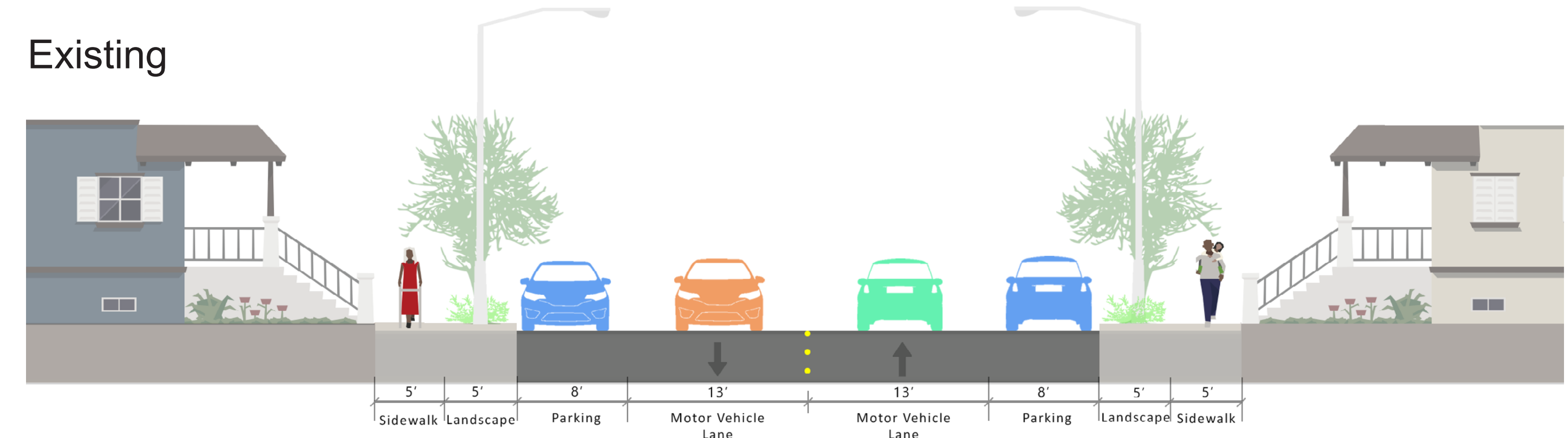


Sample Traffic Circle
(Dwight Rd, Vernon Way and Clarendon Rd)

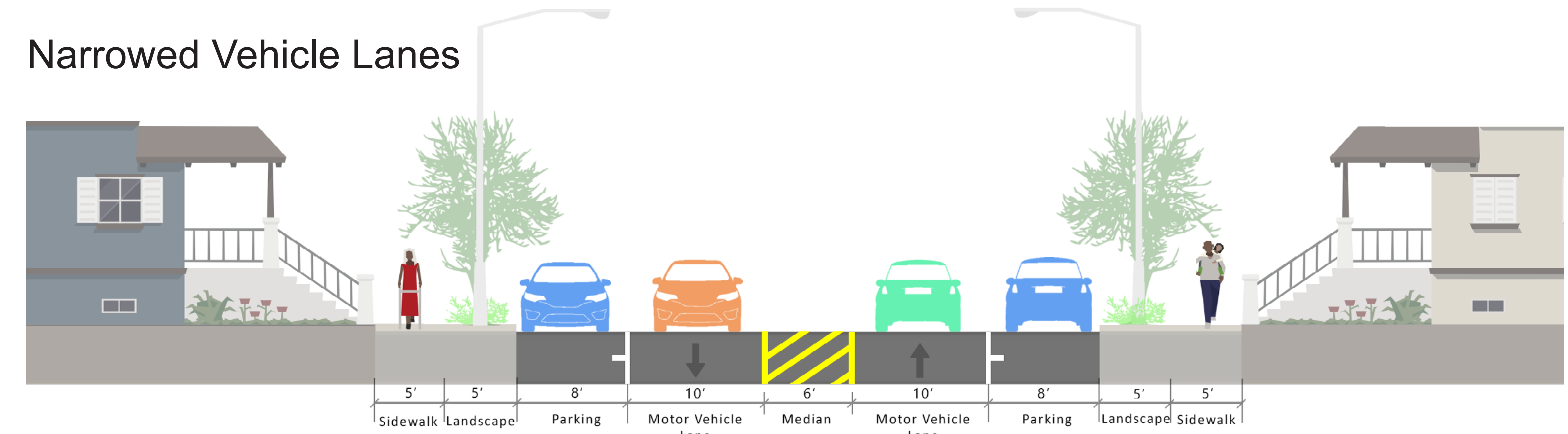


Sample Traffic Circle

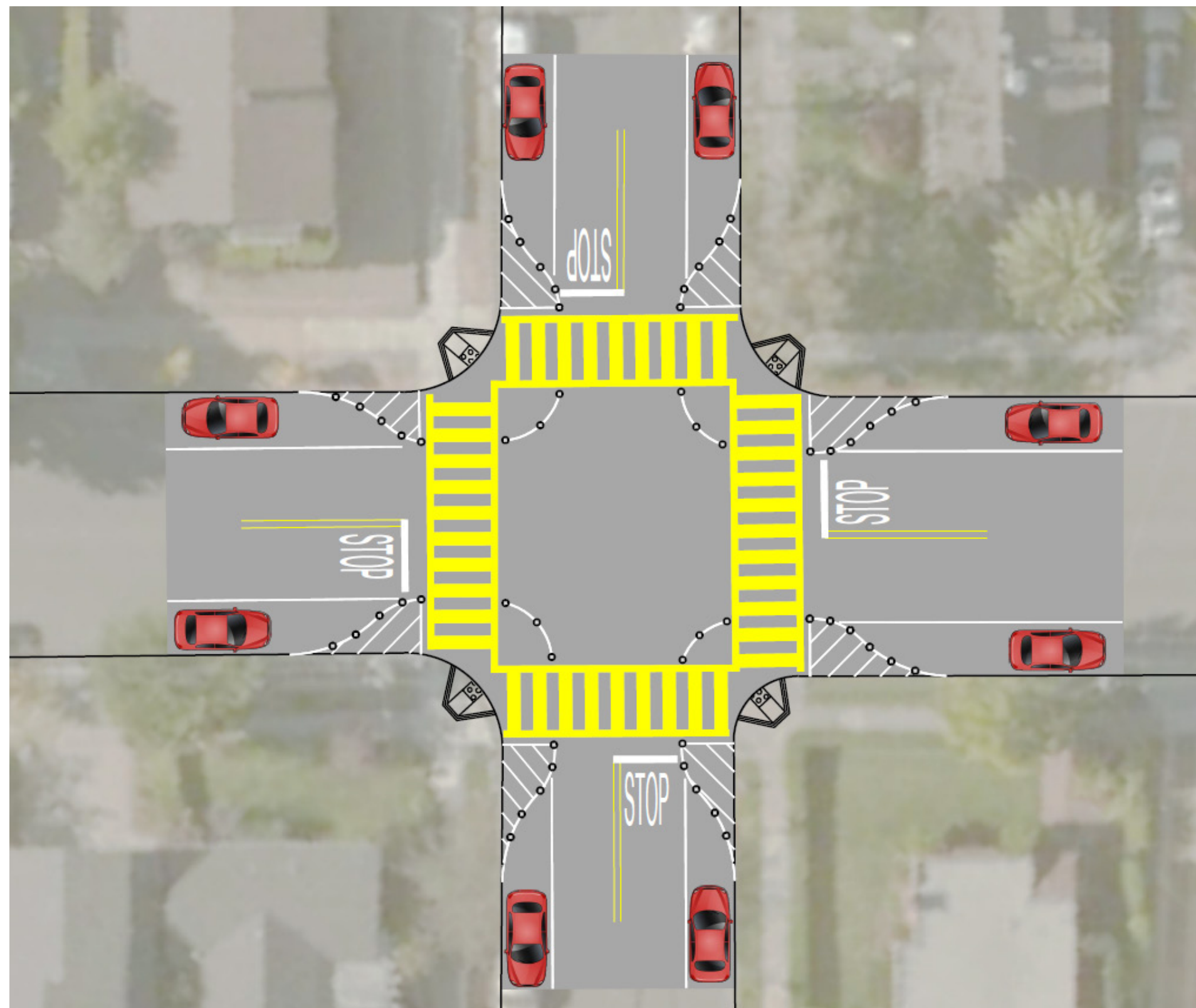
Existing



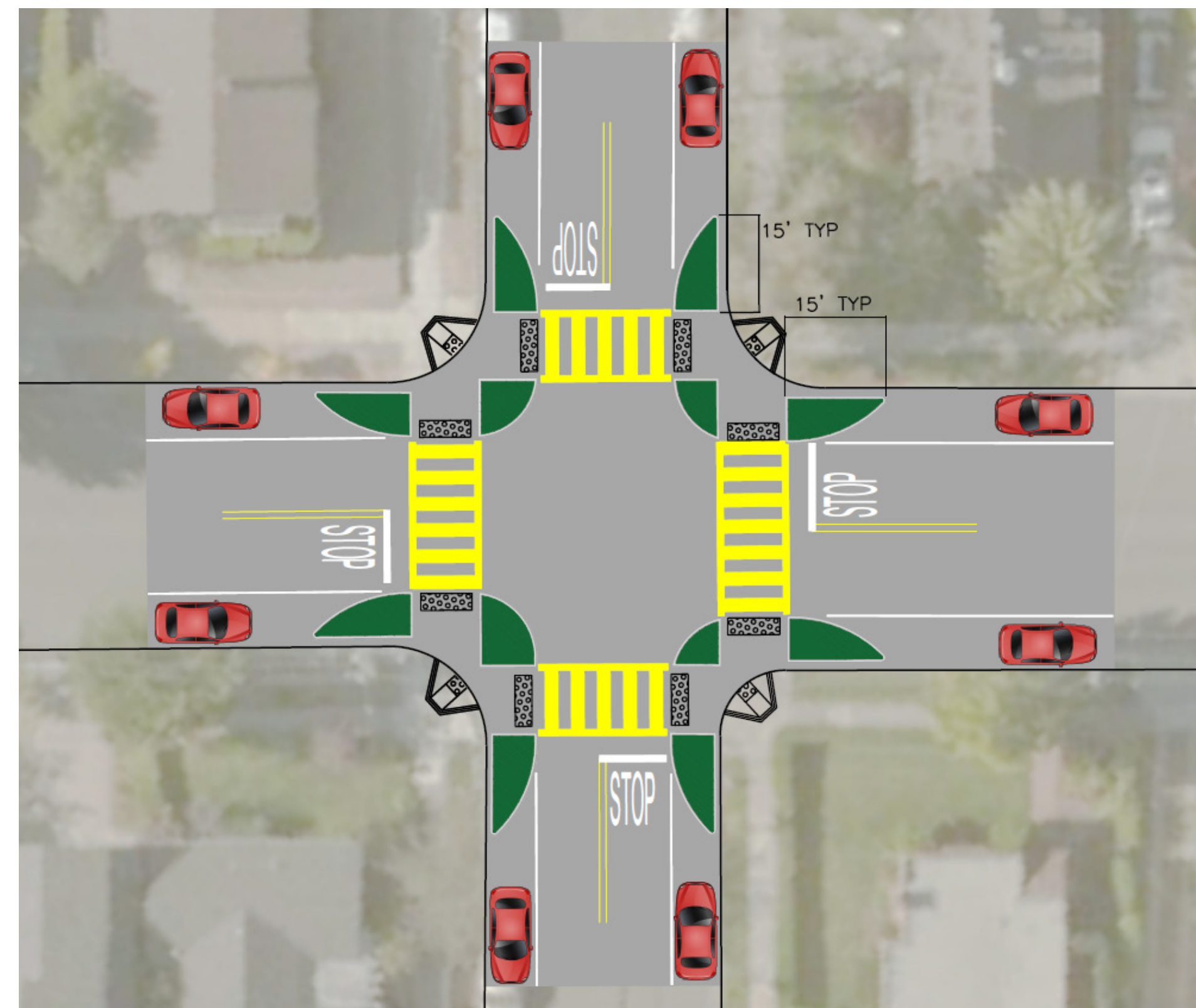
Narrowed Vehicle Lanes



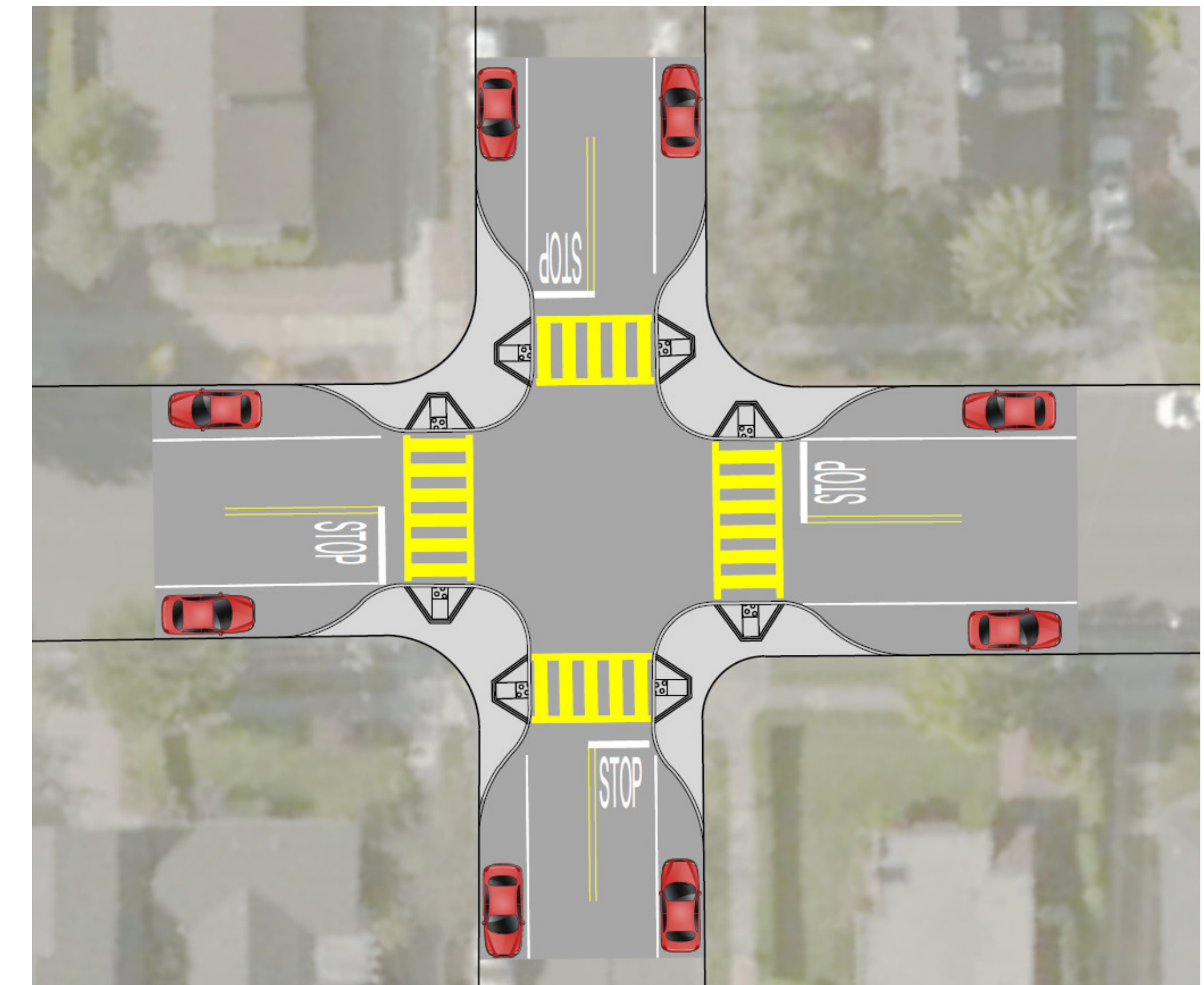
Sample Centerline/Parking Lane Striping Concept



Sample Striped Bulbouts with Delineators



Sample Detached Bulbouts



Sample Full Bulbouts

**The conceptual drawings are preliminary and for demonstration purpose only.*