

## ITEM 5.5

### CITY MANAGER'S REPORT OCTOBER 9, 2023 CITY COUNCIL REGULAR MEETING

**ITEM:** REVIEW AND CONSIDER TRAFFIC SAFETY ENHANCEMENT OPTIONS FOR RIVER ISLANDS PARKWAY AT THE INTERSECTIONS OF BOSCH AVENUE AND IMPERIAL DRIVE, CIP PS 24-07

**RECOMMENDATION:** Council to Consider Options for Traffic Safety Enhancement for River Islands Parkway at the Intersections of Bosch Avenue and Imperial Drive, CIP PS 24-07

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#### **SUMMARY:**

Staff has received complaints from residents regarding the safety of vehicles turning onto River Islands Parkway from Bosch Avenue. In December 2021, City staff responded to resident complaints by removing some landscaping as well as installing several warning signs to improve the safety of this intersection. However, the residents are now requesting stop control on River Islands Parkway.

Staff has also received complaints from residents regarding the safety of pedestrians crossing River Islands Parkway at Imperial Drive. Staff recently replaced the all-way stop control with two-way stop control and an enhanced pedestrian crossing over River Islands Parkway to facilitate the function of the newly installed adjacent traffic signals at Dell'Osso Drive and Somerston Parkway.

Staff evaluated these intersections utilizing the California Manual on Uniform Traffic Control Devices (MUTCD) and provided three Options to enhance the traffic safety as listed below and detailed in the Background Section of this Report.

#### **River Islands Parkway & Bosch Avenue**

**Option 1** – Yellow Flashing Beacons and Sight Distance Improvement

**Option 2** – Prohibit Left Turns

**Option 3** – Install Temporary All-Way Stop Control

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**River Islands Parkway & Imperial Drive**

**Option 1** – Yellow Flashing Beacons

**Option 2** – Install Pedestrian Hybrid Beacon

**Option 3** – Install Temporary All-Way Stop Control

Staff recommends that Council consider Option 1 and/or Option 2 for both Bosch Avenue and Imperial Drive, however staff will proceed with Council's elected options accordingly.

**BACKGROUND:**

The City of Lathrop established the Traffic Calming Program to address and resolve local neighborhood traffic concerns. This program provides traffic calming measures that can reduce traffic speed, motor-vehicle collisions, and improve safety for pedestrians, cyclists, and motorists. The funds allocated for the Traffic Calming Program will be unitized towards improving River Islands Parkway at Bosch Avenue and Imperial Drive. If Option 2 for Imperial Drive is selected, staff will bring an item back to Council to approve a CIP and budget given the high cost.

City staff has received complaints from residents regarding the safety of vehicles turning on to River Islands Parkway from Bosch Avenue. In December 2021, City staff responded to resident complaints by removing some landscaping as well as installing several warning signs to improve the safety of this intersection. The residents are now requesting stop control on River Islands Parkway.

Staff has also received complaints from residents regarding the safety of pedestrians crossing River Islands Parkway at Imperial Drive. Staff recently replaced the all-way stop control with two-way stop control and an enhanced pedestrian crossing over River Islands Parkway to facilitate the function of the newly installed adjacent traffic signals at Dell'Osso Drive and Somerston Parkway.

Staff evaluated these intersections utilizing the California Manual on Uniform Traffic Control Devices (MUTCD). There have been no reported collisions at the River Islands Parkway and Bosch Avenue intersection and one reported collision that may have been caused by the recent change in traffic control at the River Islands Parkway & Imperial Drive intersection. The following options are being presented to Council for review and consideration:

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**River Islands Parkway & Bosch Avenue**

**Option 1 – Install Yellow Flashing Beacons to the Intersection Warning Signs on River Islands Parkway and Further Reduce Landscaping to Improve Sight Distance**

(Approximate cost is \$2,000)

- Recommended: This will allow for enhanced warning of an intersection to vehicles traveling on River Islands Parkway and increase the visibility of vehicles turning from Bosch Avenue

**Option 2 – Prohibit Left Turns from Bosch Avenue to River Islands Parkway during Peak Traffic Hours**

(Approximate cost of \$500)

- Recommended: Prohibiting left turns from Bosch Avenue to River Islands Parkway from 6 AM – 9 AM and 3 PM – 6 PM will encourage residents to use the adjacent stop controlled or roundabout intersections during the peak traffic hours to ensure safe egress from the neighborhood

**Option 3 – Install Temporary All-Way Stop Control until the Adjacent Sidwell Drive Traffic Signal is installed**

(Approximate cost of \$6,000)

- Not Recommended:
  - MUTCD Section 2B.07 Multi-Way Stop Applications criteria is not met
  - Currently no reported collisions at this intersection and All-Way Stop Control can increase collisions on the major road (River Islands Parkway)
  - In the future, All-Way Stop Control will cause traffic delays of 1.5 minutes on River Islands Parkway and the intersection will operate at an unacceptable LOS F

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**River Islands Parkway & Imperial Drive**

**Option 1 – Install Pedestrian Activated Yellow Flashing Beacons to Pedestrian Crossing Warning Signs**

(Approximate cost is \$8,000)

- Recommended: The flashing lights will provide an enhanced warning to vehicles that a pedestrian is crossing River Islands Parkway while maintaining the flow of traffic necessary for the proper function of the adjacent traffic signals

**Option 2 – Install Pedestrian Hybrid Beacon**

(Approximate cost of \$400,000)

- Recommended: The Pedestrian Hybrid Beacon is pedestrian activated and will stop traffic on River Islands Parkway with a red light. Once the pedestrian has cleared the intersection, the light will go dark to allow traffic on River Islands Parkway to flow as needed to maintain the proper function of the adjacent traffic signals

**Option 3 – Install Temporary All-Way Stop Control until Option 1 or 2 can be installed or traffic delays are observed by staff**

(Approximate cost of \$6,000)

- Not Recommended:
  - MUTCD Section 2B.07 Multi-Way Stop Applications criteria is not met
  - All-Way stop control will negatively affect the operation of the adjacent signals on River Islands Parkway at Dell’Osso Drive and Somerston Parkway
  - In the future, All-Way Stop Control will cause traffic delays of 9 minutes on River Islands Parkway and the intersection will operate at an unacceptable LOS F

Staff recommends that Council consider Option 1 and/or Option 2 for both Bosch Avenue and Imperial Drive. However staff will proceed with Council’s elected options accordingly.

**REASON FOR RECOMMENDATION:**

The intersections of River Islands Parkway at Bosch Avenue and Imperial Drive have some challenges that require enhanced safety improvements. The recommended Options in the Summary above will improve the safety within these intersections.

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**FISCAL IMPACT:**

Staff estimates the approximate construction costs below for all the options for the two intersections:

**River Islands Parkway & Bosch Avenue**

<b>Option 1 – Yellow Flashing Beacons and Sight Distance Improvement</b>	\$2,000
<b>Option 2 – Prohibit Left Turns</b>	\$500
<b>Option 3 – Install Temporary All-Way Stop Control</b>	\$6,000

**River Islands Parkway & Imperial Drive**

<b>Option 1 – Yellow Flashing Beacons</b>	\$8,000
<b>Option 2 – Install Pedestrian Hybrid Beacon</b>	\$400,000
<b>Option 3 – Install Temporary All-Way Stop Control</b>	\$6,000

Staff will pursue the option selected by Council, develop construction documents, and secure bids for the project. Sufficient funds have been allocated in FY 23-24 approved budget, CIP PS 24-07 Traffic Calming Measure fund (3310) for all options except River Islands Parkway & Imperial Drive Option 2; if this Option is selected, staff will bring an item back to Council to approve a CIP and budget given the high cost.

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**ATTACHMENTS:**

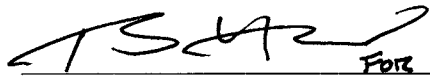
- A. Bosch Avenue Option 1: Install Yellow Flashing Beacons to the Intersection Warning Signs on River Islands Parkway and further Reduce Landscaping to Improve Sight Distance
- B. Bosch Avenue Option 2: Prohibit Left Turns from Bosch Avenue to River Islands Parkway During Peak Traffic Hours
- C. Bosch Avenue Option 3: Install Temporary All-Way Stop Control until the Adjacent Sidwell Drive Traffic Signal is Installed
- D. Imperial Drive Option 1: Install Pedestrian Activated Yellow Flashing Beacons to Pedestrian Crossing Warning Signs
- E. Imperial Drive Option 2: Install Pedestrian Hybrid Beacon
- F. Imperial Drive Option 3: Install Temporary All-Way Stop Control until Option 1 or 2 can be installed or the traffic volume exceeds the capacity of the all-way stop

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**APPROVALS:**

  
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Brad Taylor  
City Engineer

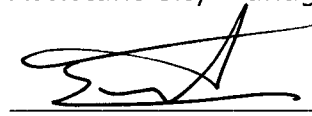
10/3/2023  
Date

  
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Cari James  
Finance Director

10/04/2023  
Date

  
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Michael King  
Assistant City Manager

10.3.2023  
Date

  
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Salvador Navarrete  
City Attorney

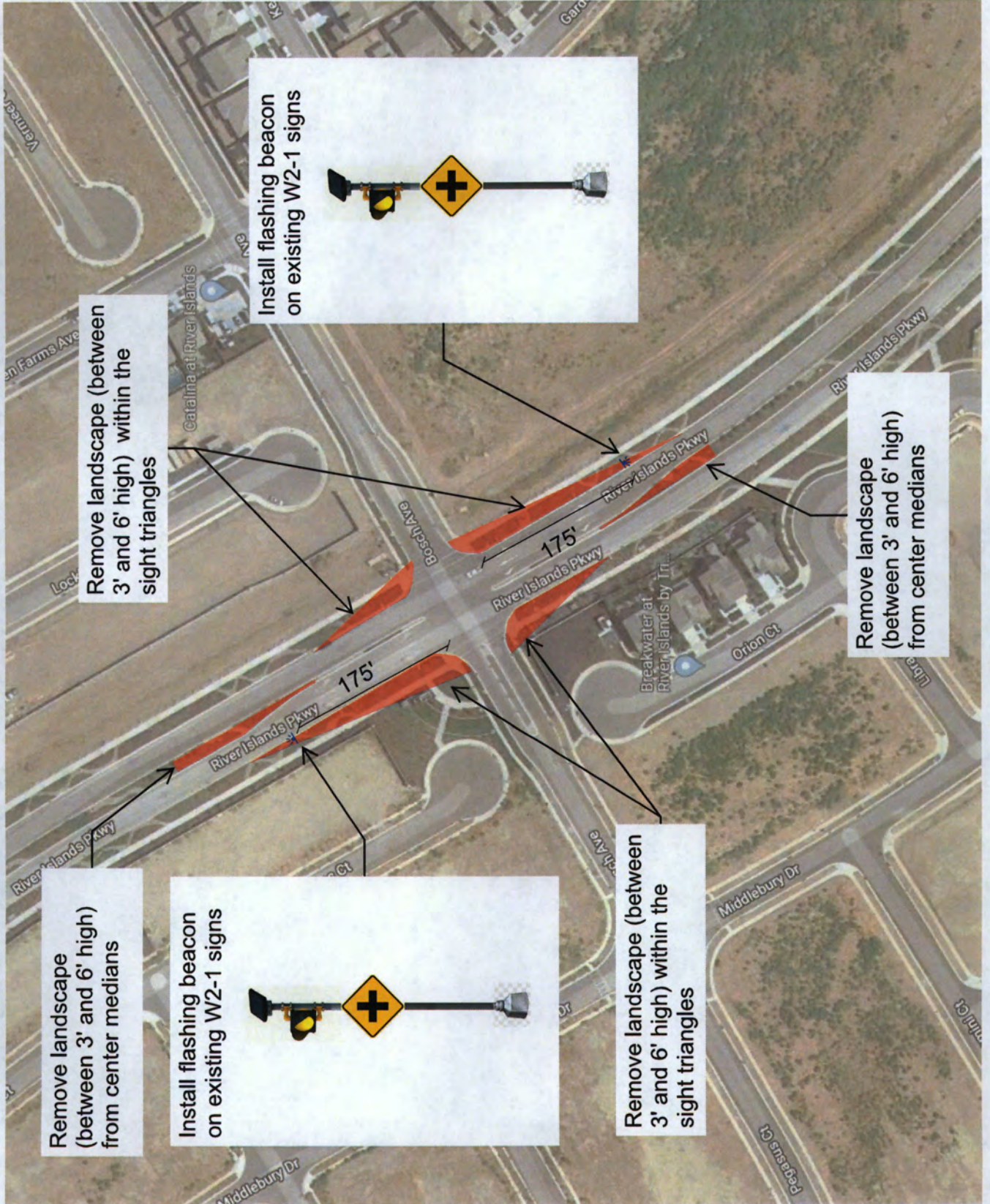
10.4.2023  
Date

  
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Stephen J. Salvatore  
City Manager

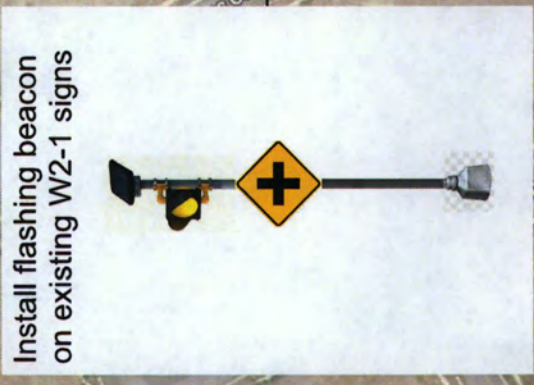
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# RIVER ISLANDS PARKWAY AND BOSCH AVENUE

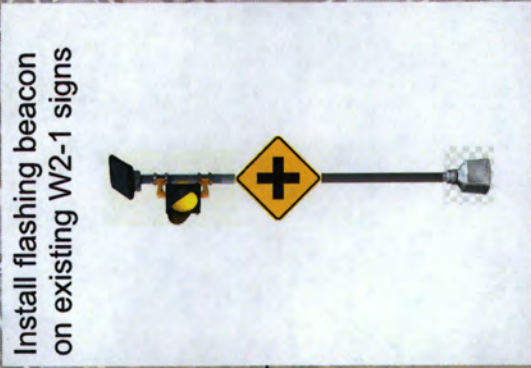
## OPTION 1: YELLOW FLASHING BEACONS AND SIGHT DISTANCE IMPROVEMENTS



Remove landscape (between 3' and 6' high) from center medians



Remove landscape (between 3' and 6' high) within the sight triangles



Remove landscape (between 3' and 6' high) from center medians



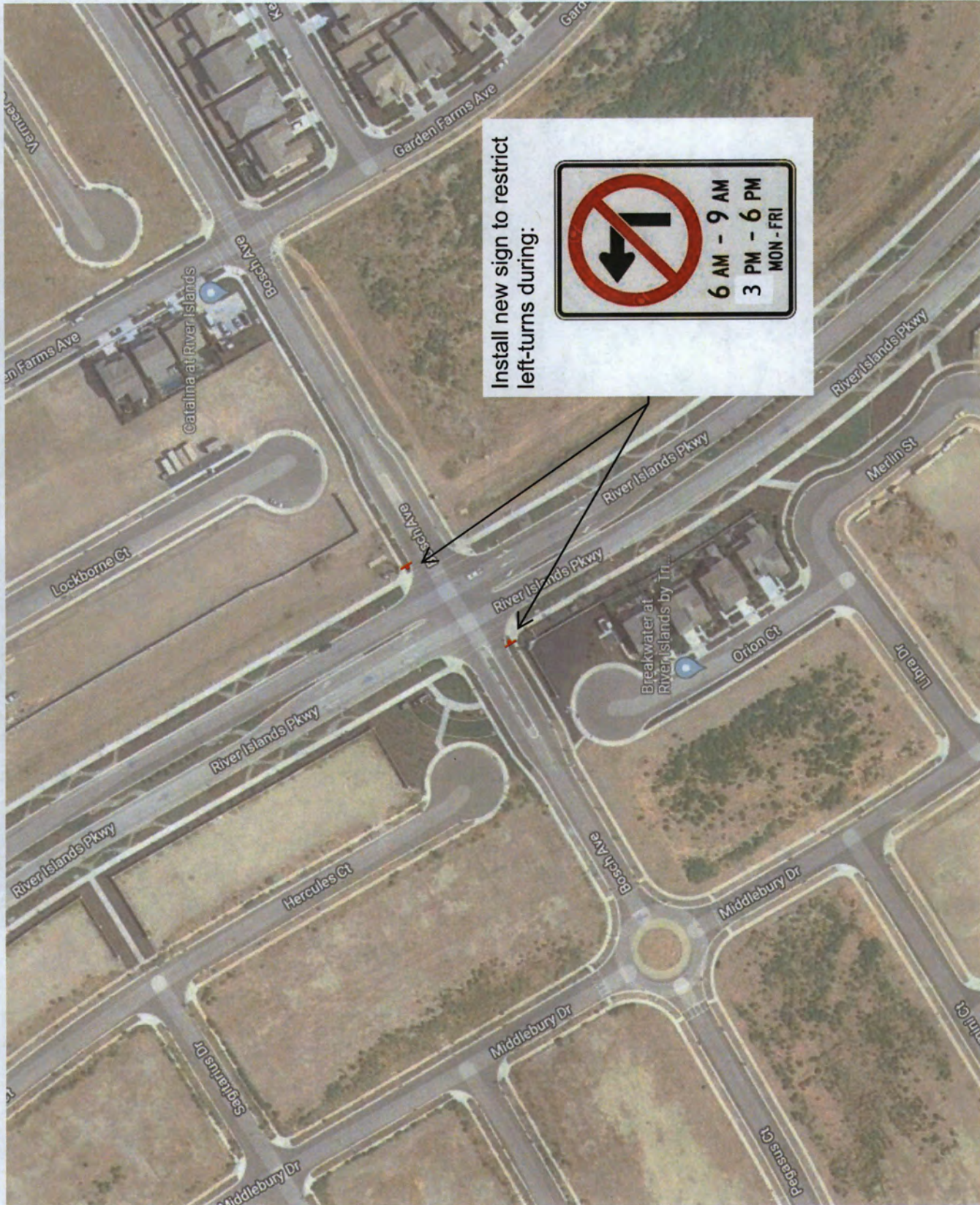


RIVER ISLANDS PARKWAY AND BOSCH AVENUE

**OPTION 2: PROHIBIT LEFT-TURNS ON AM/PM PEAK HOURS**



ATTACHMENT  
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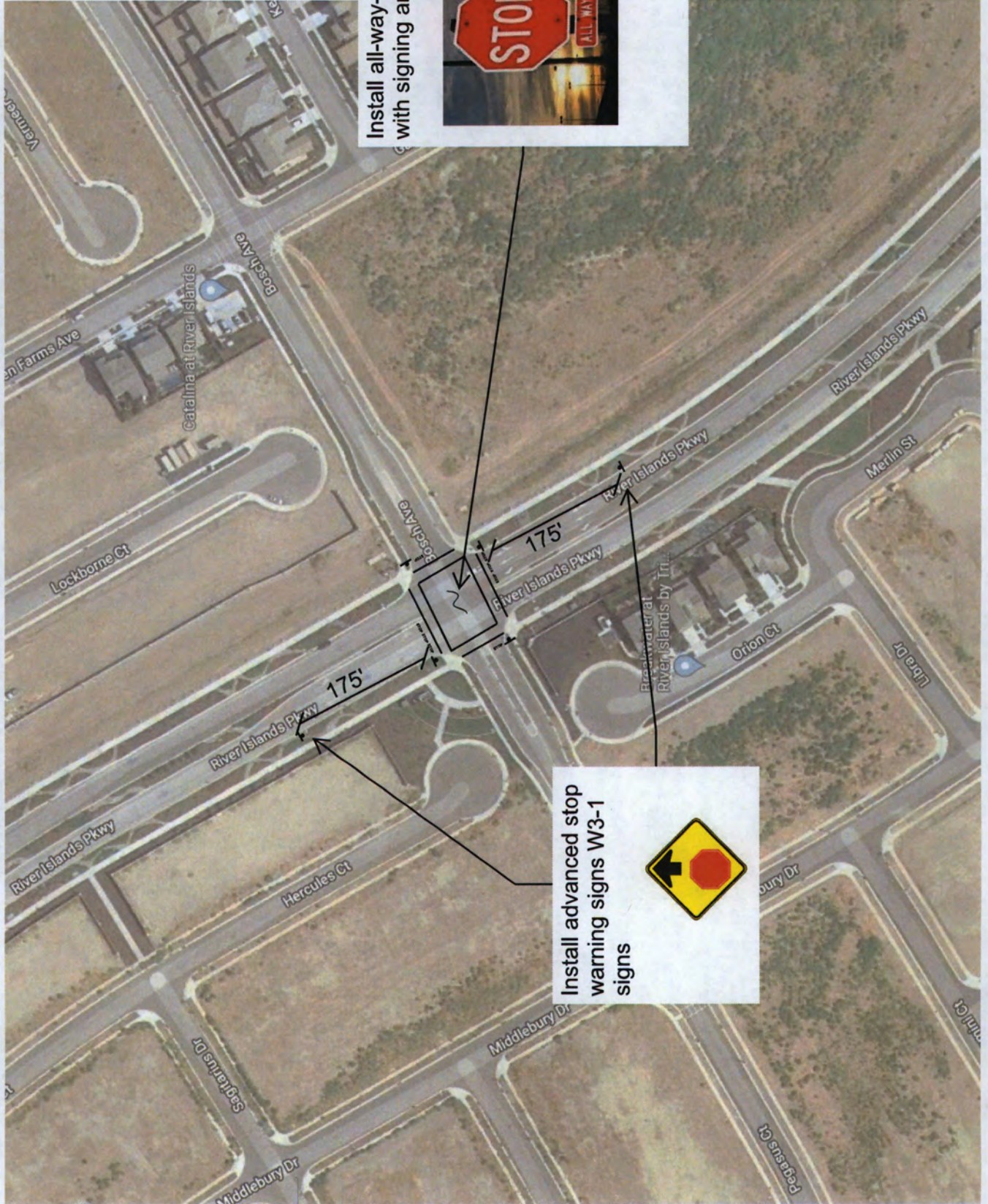


Install new sign to restrict left-turns during:

6 AM - 9 AM  
3 PM - 6 PM  
MON - FRI

RIVER ISLANDS PARKWAY AND BOSCH AVENUE

**OPTION 3: INSTALL ALL-WAY-STOP-CONTROL (AWSC)**



Install all-way-stop-control with signing and striping

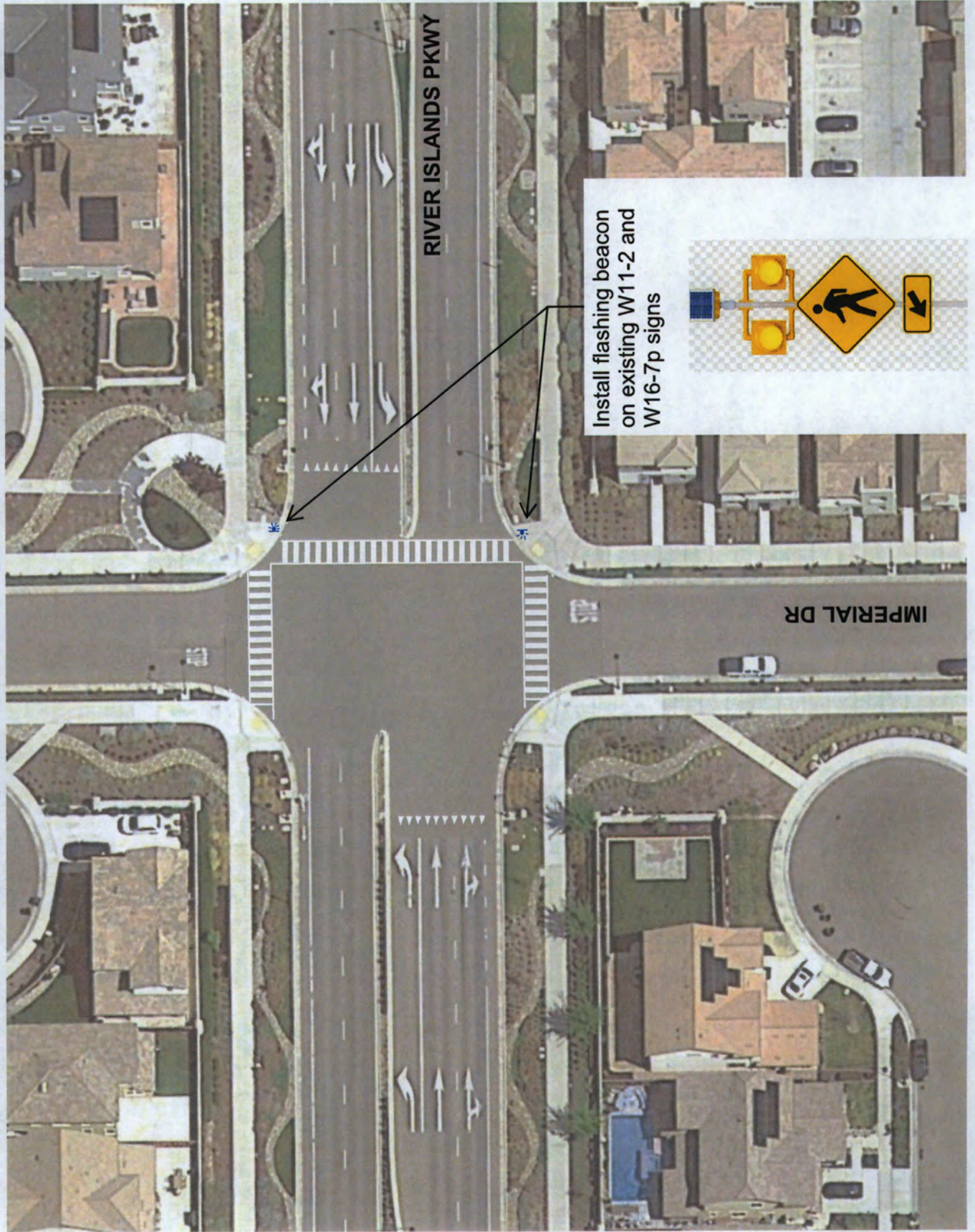


Install advanced stop warning signs W3-1 signs



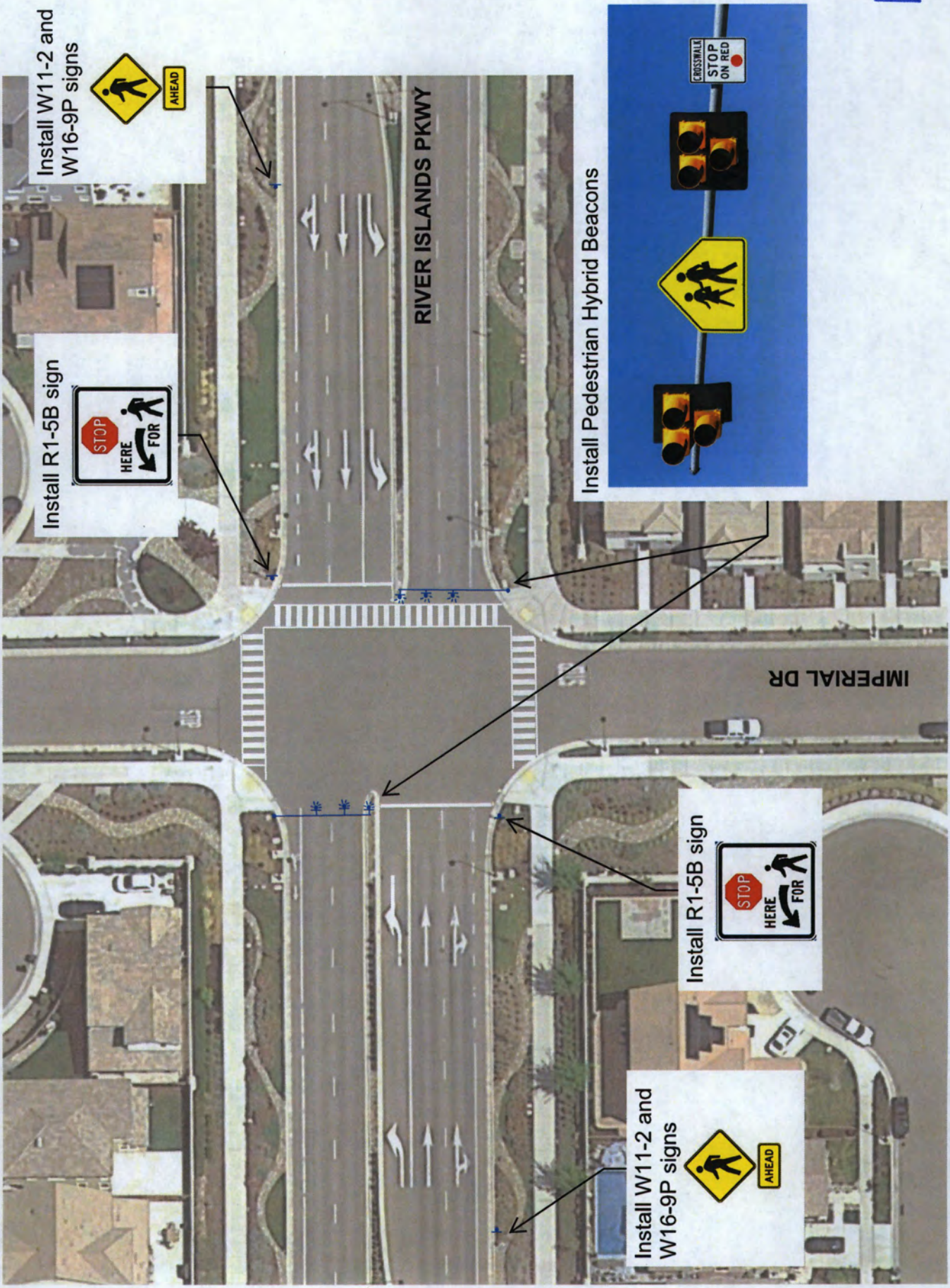
RIVER ISLANDS PARKWAY AND IMPERIAL DRIVE

**OPTION 1: INSTALL PEDESTRIAN ACTIVATED YELLOW FLASHING BEACONS**



RIVER ISLANDS PARKWAY AND IMPERIAL DRIVE

OPTION 2: INSTALL PEDESTRIAN HYBRID BEACONS

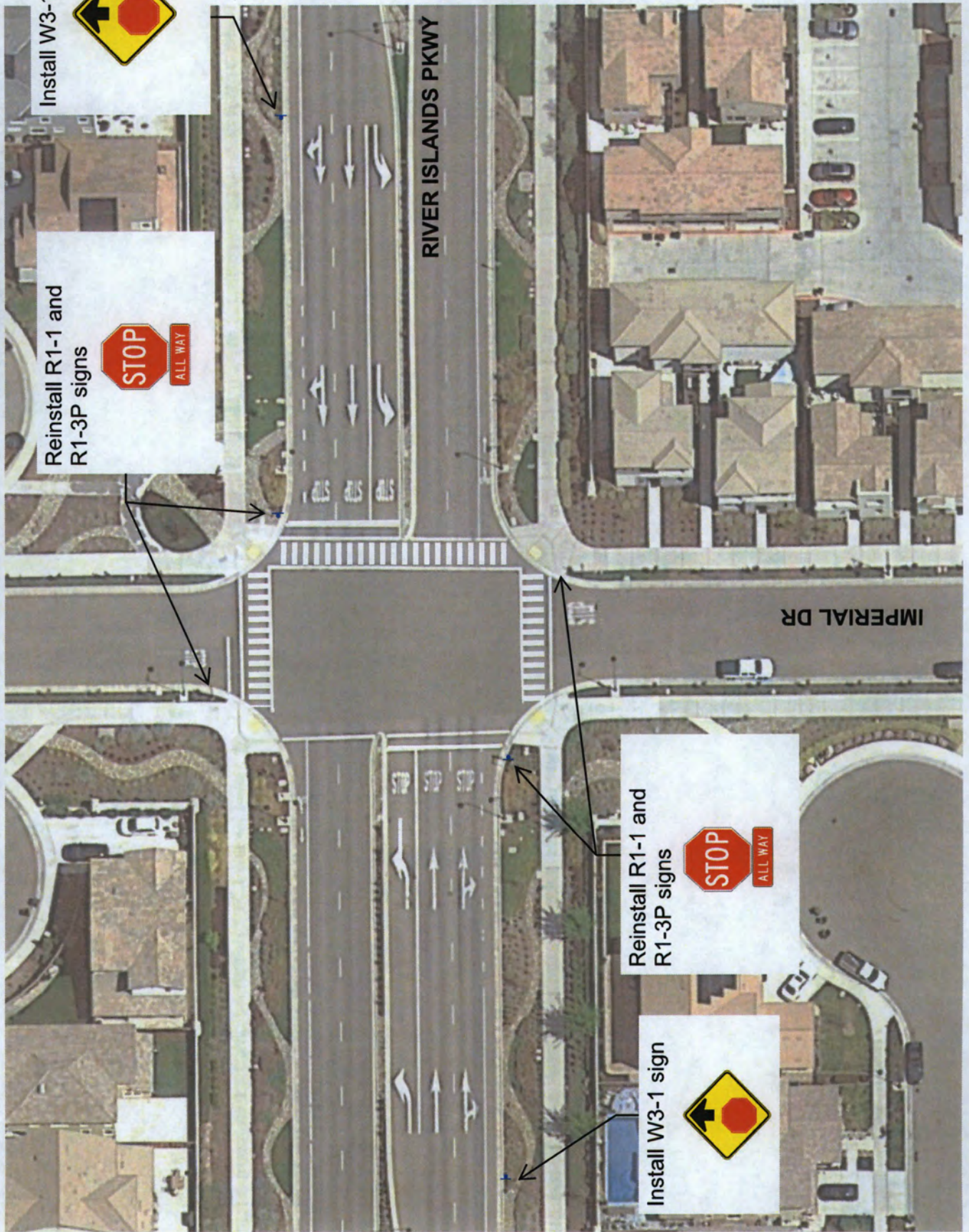


Install Pedestrian Hybrid Beacons



RIVER ISLANDS PARKWAY AND IMPERIAL DRIVE

OPTION 3: INSTALL ALL-WAY STOP CONTROL (AWSC)



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