



# US 17 GREEN COVE SPRINGS CORRIDOR STUDY

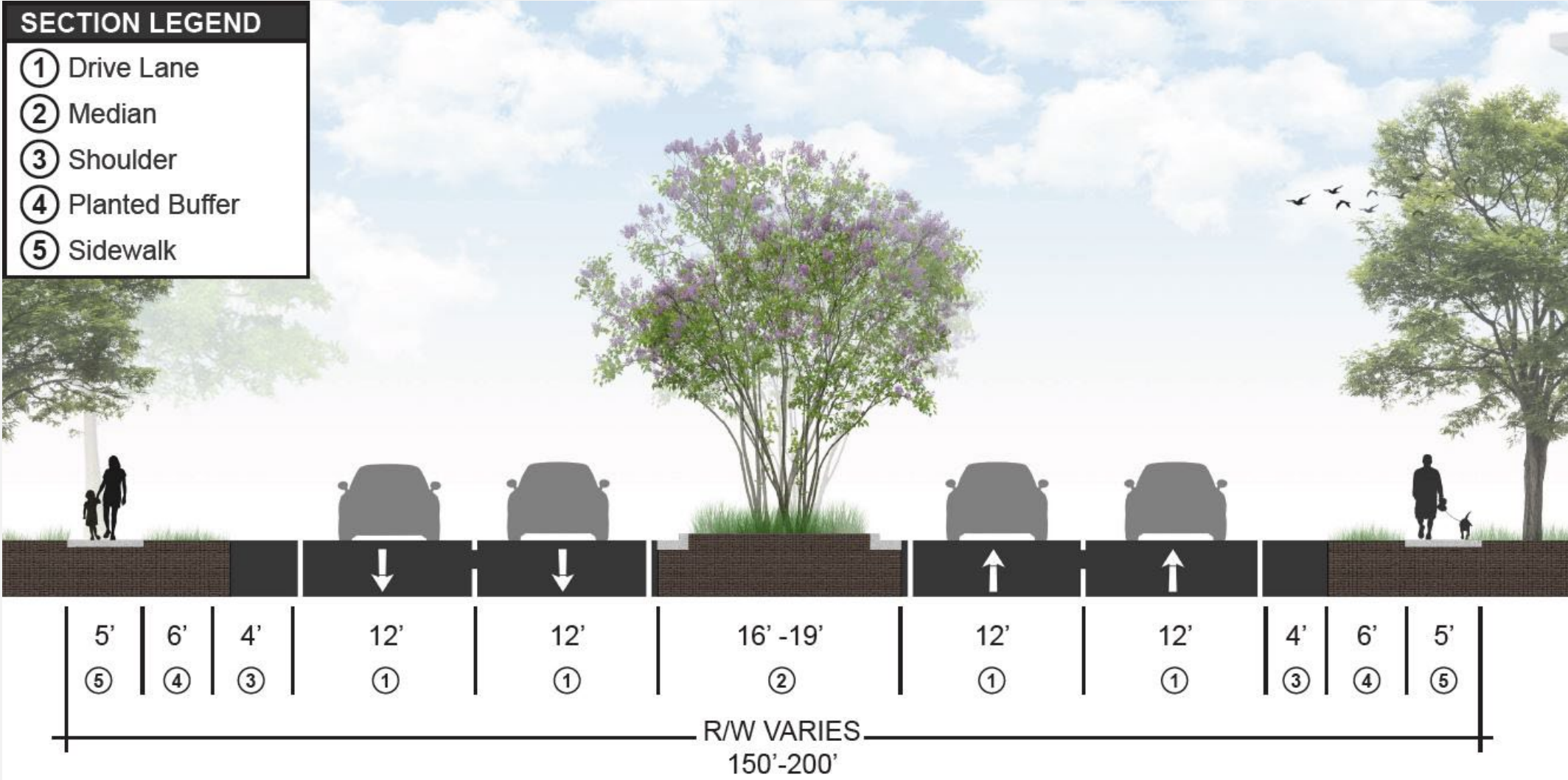
UPWP TASK 5.12

# Purpose

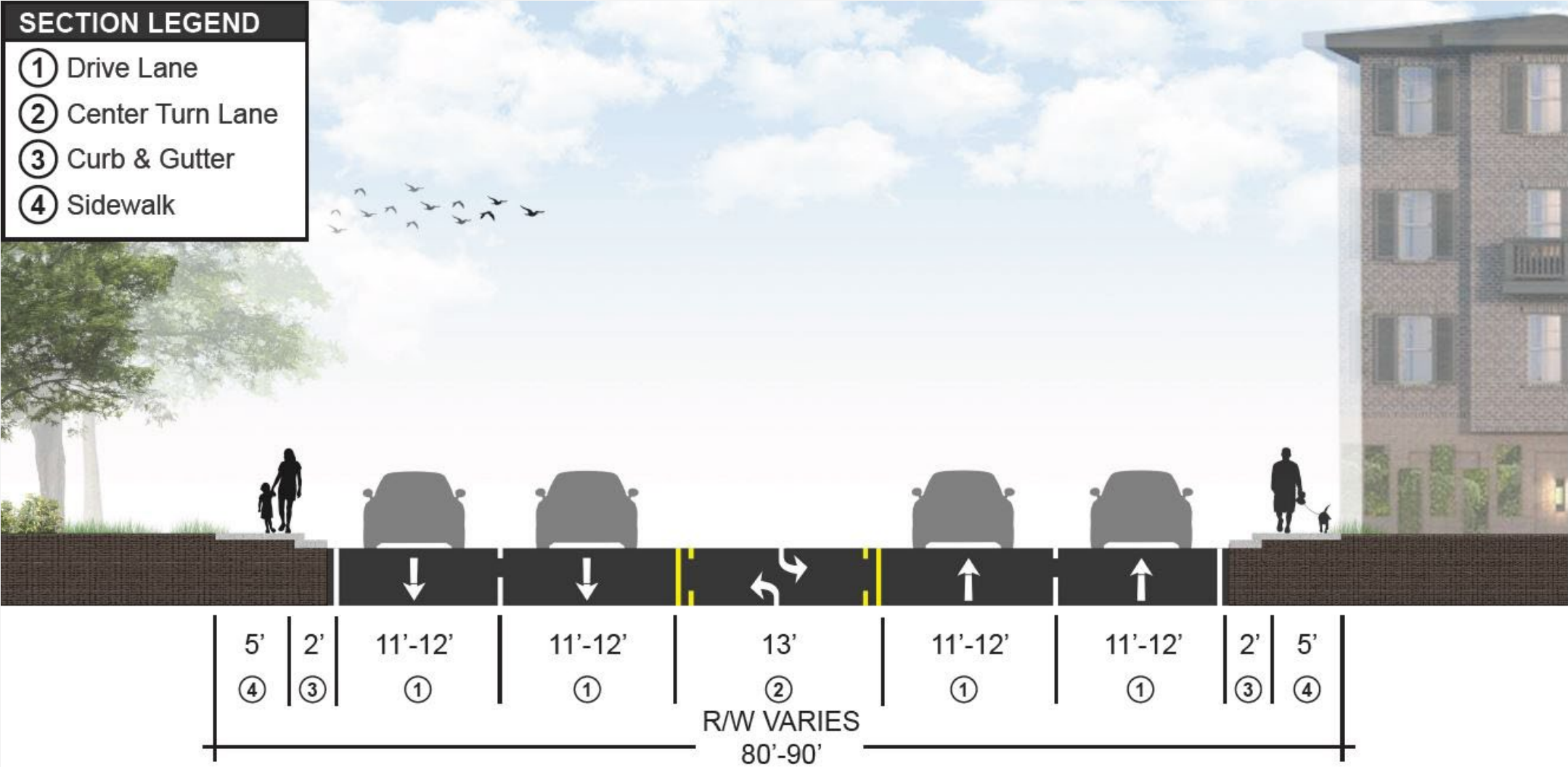


Improve the users' experience of US 17 in Green Cove Springs from SR 16 (Leonard C Taylor Parkway) to Orion Road

# Existing Typical Section - Suburban

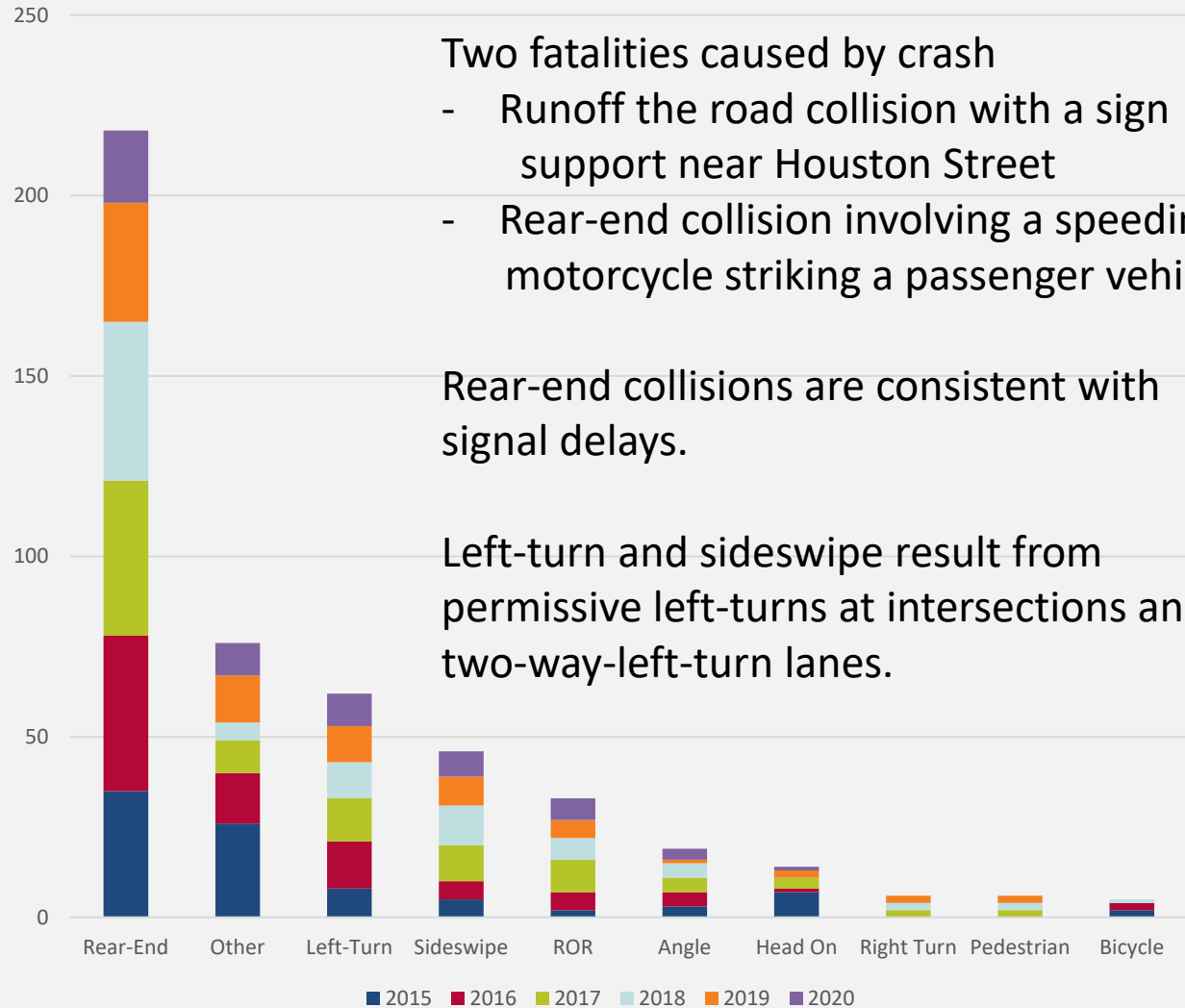


# Existing Typical Section - Urban



# Safety Analysis

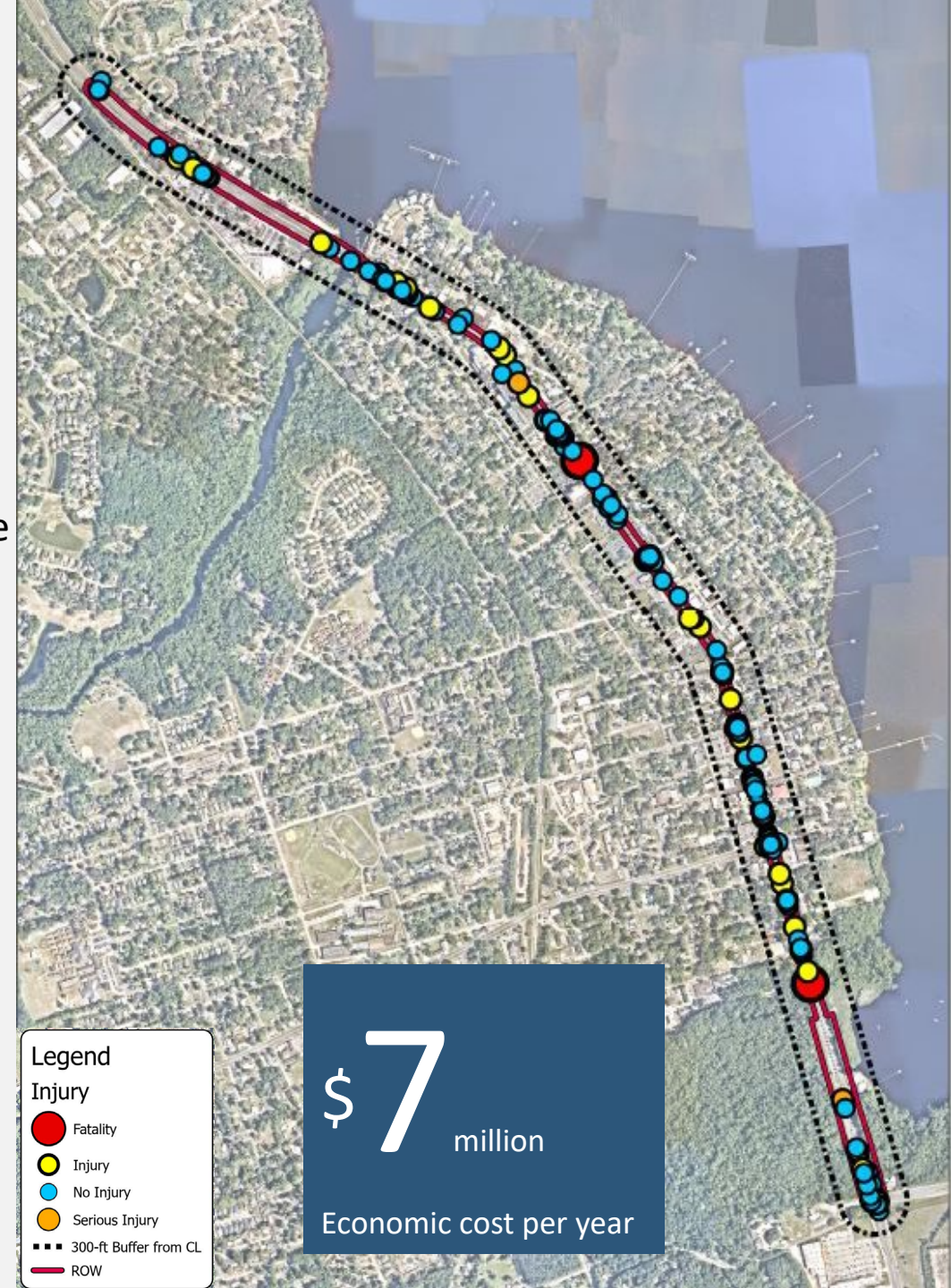
Crashes by Type



- Two fatalities caused by crash
  - Runoff the road collision with a sign support near Houston Street
  - Rear-end collision involving a speeding motorcycle striking a passenger vehicle

Rear-end collisions are consistent with signal delays.

Left-turn and sideswipe result from permissive left-turns at intersections and two-way-left-turn lanes.



**Legend**

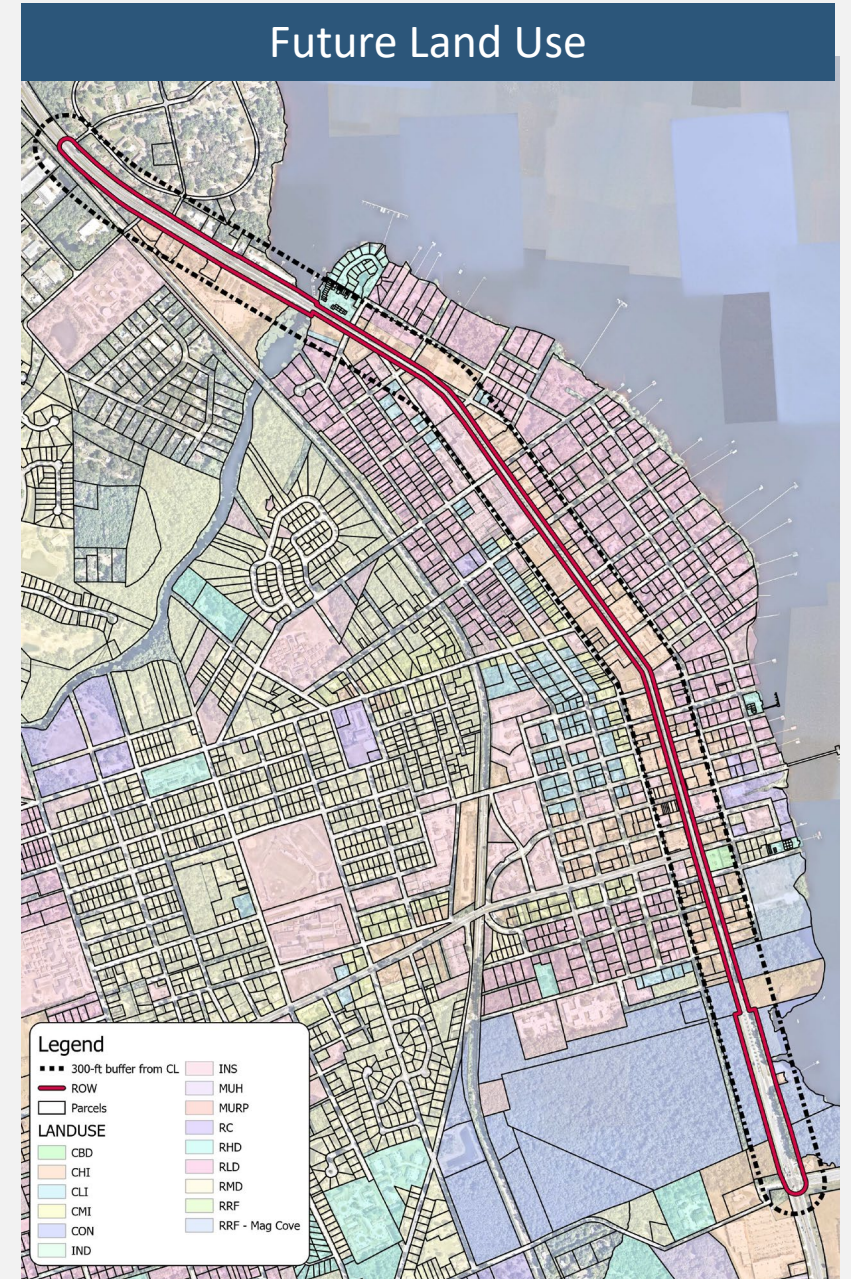
**Injury**

- Red circle: Fatality
- Yellow circle: Injury
- Cyan circle: No Injury
- Orange circle: Serious Injury
- Dashed black line: 300-ft Buffer from CL
- Solid red line: ROW

**\$7 million**  
Economic cost per year

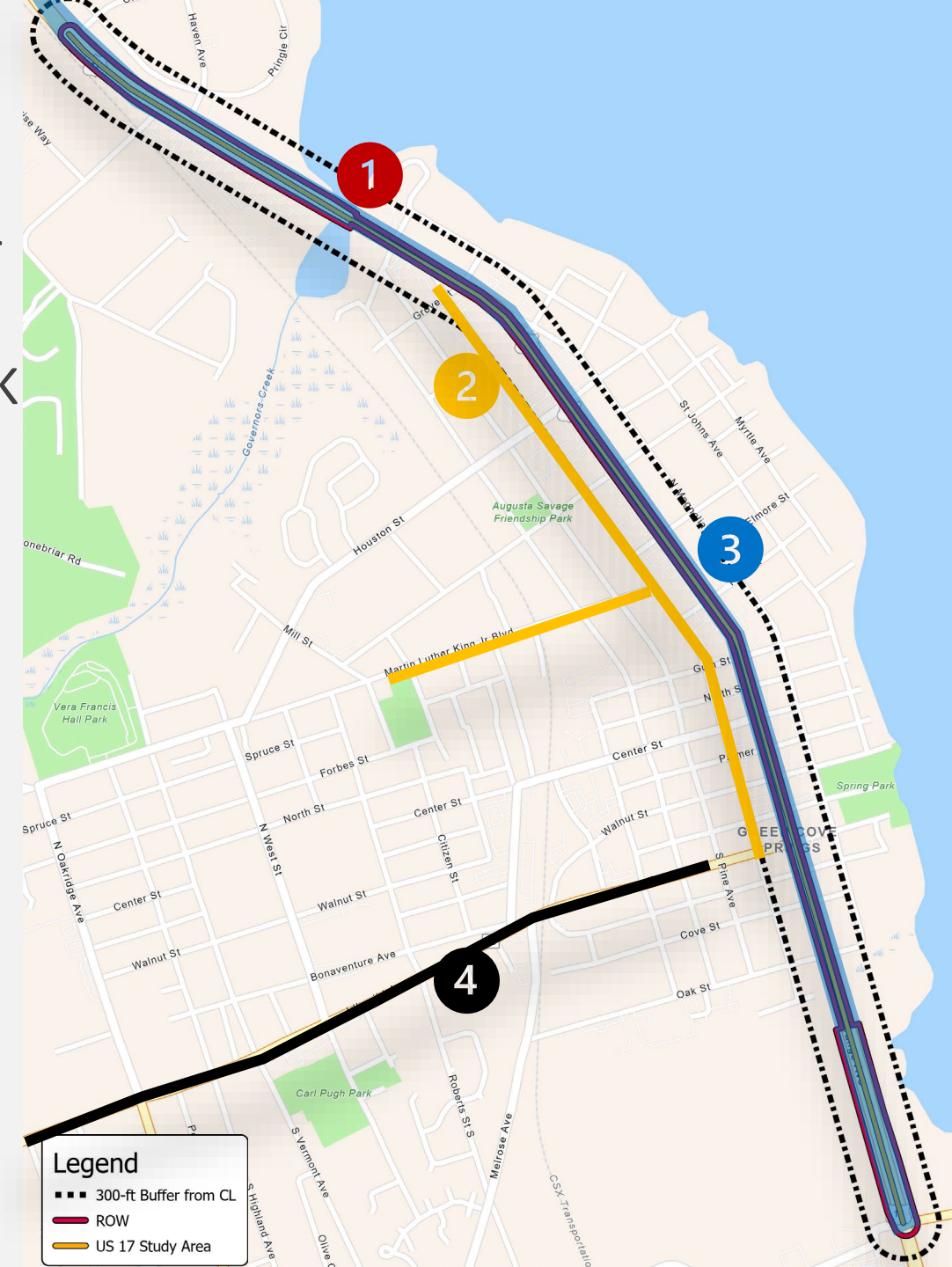
# Planning Consistency

- Comprehensive Plan
  - 1.9.7 5-ft bike lanes on local roads
  - 1.12.4 Public transportation corridors with JTA
  - 1.14.2 Park-n-ride facilities with Clay Transit
  - 2.1.5 Conduct this study with the TPO
  - 2.3.9 Prioritize multimodal
  - 2.6.6 Expand public transport
- Municipal Code
  - Designates golf carts per F.S. 316.212
  - Seek approval for crossings of state roads
- Future Land Use
  - No significant changes



# Related Projects

1. 4414061-1 Sidewalk on Governor's Creek Bridge – recently completed
2. 435677-1 Multiuse Trail Palmetto Avenue and MLK Boulevard from Vera Francis Hall Park to Green Cove Springs Nature Preserve – design ongoing (No funding for construction)
3. 208202-5 Resurfacing from Oak Street to Black Creek - construction in FY 2025 \$15.2 million
4. 4389181 SR 16 PD&E Study from First Coast Expressway to Oakridge Lane - on-going
5. 422938-5 New Interchange at US 17 and First Coast Expressway – under construction (not shown)



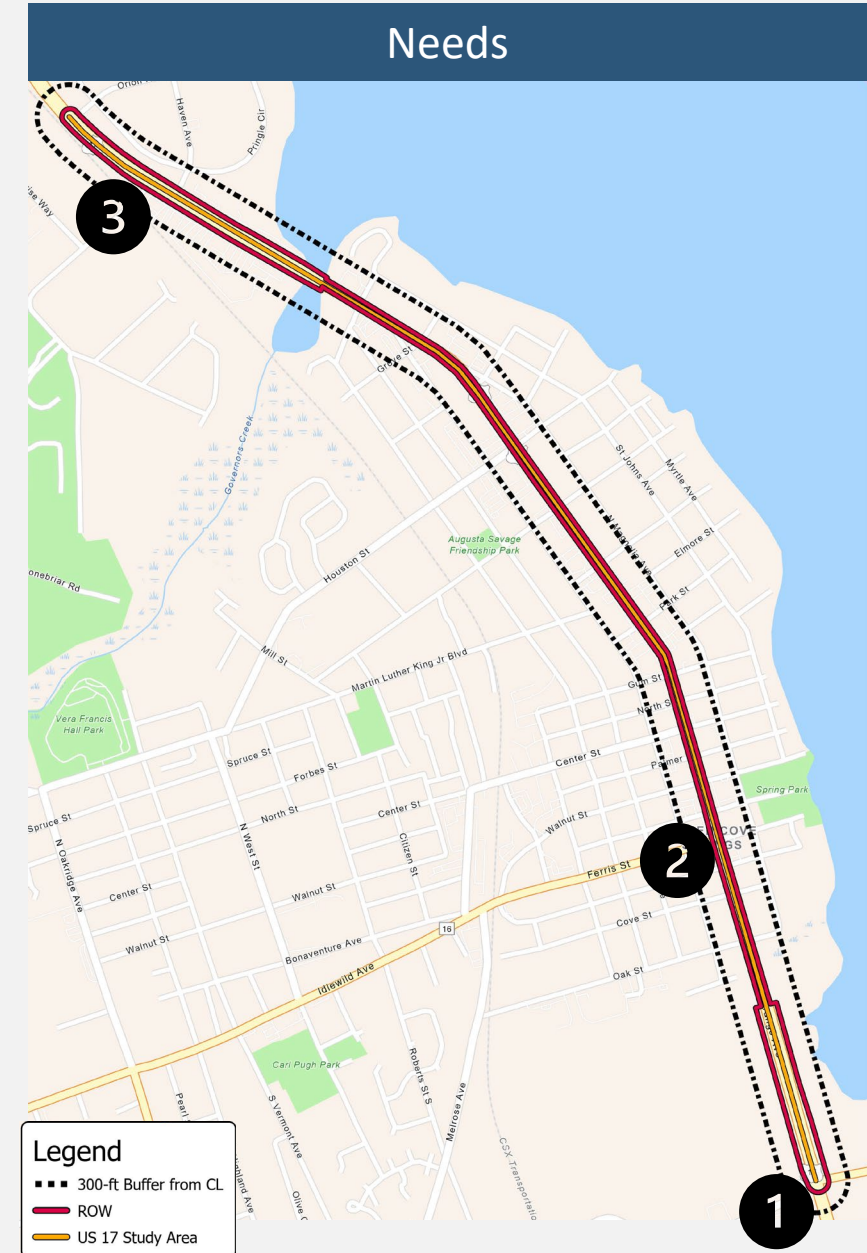
# Level of Service

Location	LOS D Volume Threshold	2019 AADT	2019 LOS	2045 AADT	2045 LOS
South of SR 16 (Leonard C Taylor Parkway)	39,800	14,100	C	25,100	C
North of SR 16(Leonard C Taylor Parkway)	39,800	21,500	C	38,300	D
South of SR 16 (Ferris Street)	32,400	20,000	D	35,600	<b>F</b>
North of SR 16 (Ferris Street)	32,400	22,500	D	34,200	<b>F</b>
North of Gum Street	32,400	24,000	D	36,500	<b>F</b>
North of Governors Creek	32,400	29,500	D	44,800	<b>F</b>
SR 16 east of US 17	39,800	17,800	C	36,300	C
SR 16 west of US 17	32,400	11,500	C	17,500	D



# Summary of Needs

- Safety
  1. US 17 at SR 16 Leonard C Taylor Parkway
  2. US 17 at SR 16 Ferris Street
- Traffic Operations
  1. US 17 at SR 16 Ferris Street northbound left
  3. US 17 at Harbor Road second left-turn lane
- Multimodal
  - Non-uniform ADA ramps
  - Shelters at Clay Community Transit stops
  - JTA coordination for additional service

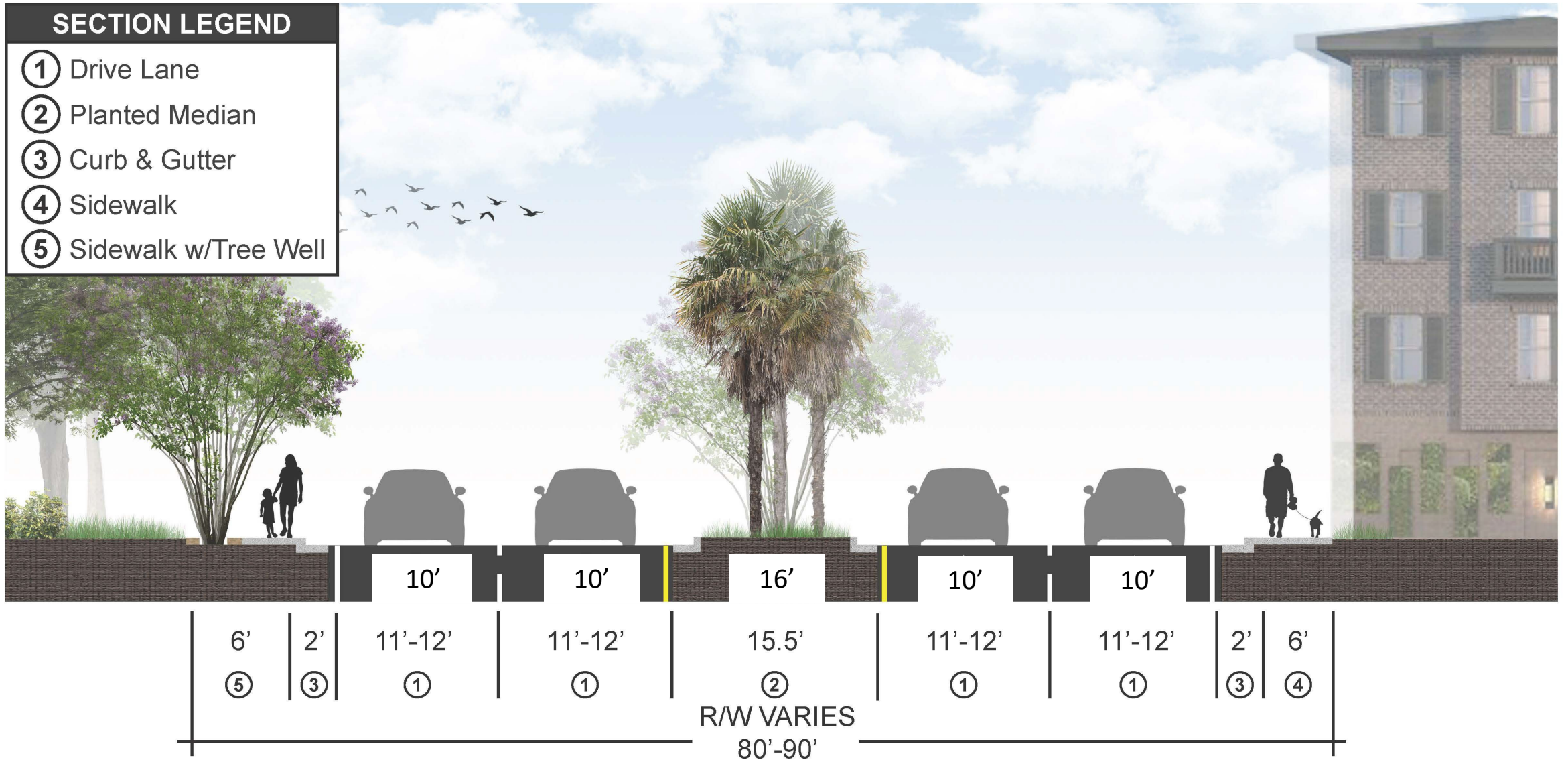


# Proposed Improvements

- Widening and reconstructing sidewalks
- Adding landscaping adjacent to sidewalks to create shade and a more pedestrian friendly environment
- Constructing landscaping in the median between Leonard Taylor Parkway and Oak Street
- Constructing a median with landscaping between Oak Street and Governor's Creek Bridge to improve safety, traffic operations and the roadway aesthetics
- Constructing intersection improvements at SR 16 (Ferris Street) to accommodate larger vehicles traveling eastbound to southbound on US 17
- Implementing access management strategies to improve safety
- Constructing landscaping in the median between Governor's Creek Bridge and Orion Street
- Replacing strain poles with mast arms at all signals
- Narrowing lanes and widening sidewalks in the vicinity of the Walnut Street
- Milling and resurfacing of the pavement within the limits of the project

## SECTION LEGEND

- ① Drive Lane
- ② Planted Median
- ③ Curb & Gutter
- ④ Sidewalk
- ⑤ Sidewalk w/Tree Well



# Design Standards

Element	C3C Suburban	C4 Urban General	Proposed C4
Design Speed (MPH)*	50	45	35
Lane width (ft)	11	11	11
Median (ft)	22	22	16
Two-way Left Turn Lane (ft)**	12	12	-
Bicycle Lane (ft)	7	7	-
Sidewalk Width (ft)***	6	6	6

Source: FDOT 2022 Design Manual

SIS Facility

Design Speed Table 201.5.1

Lane Width Table 210.2.1

Median Width Table 210.3.1

# SR 16 Leonard C Taylor Parkway to Oak Street



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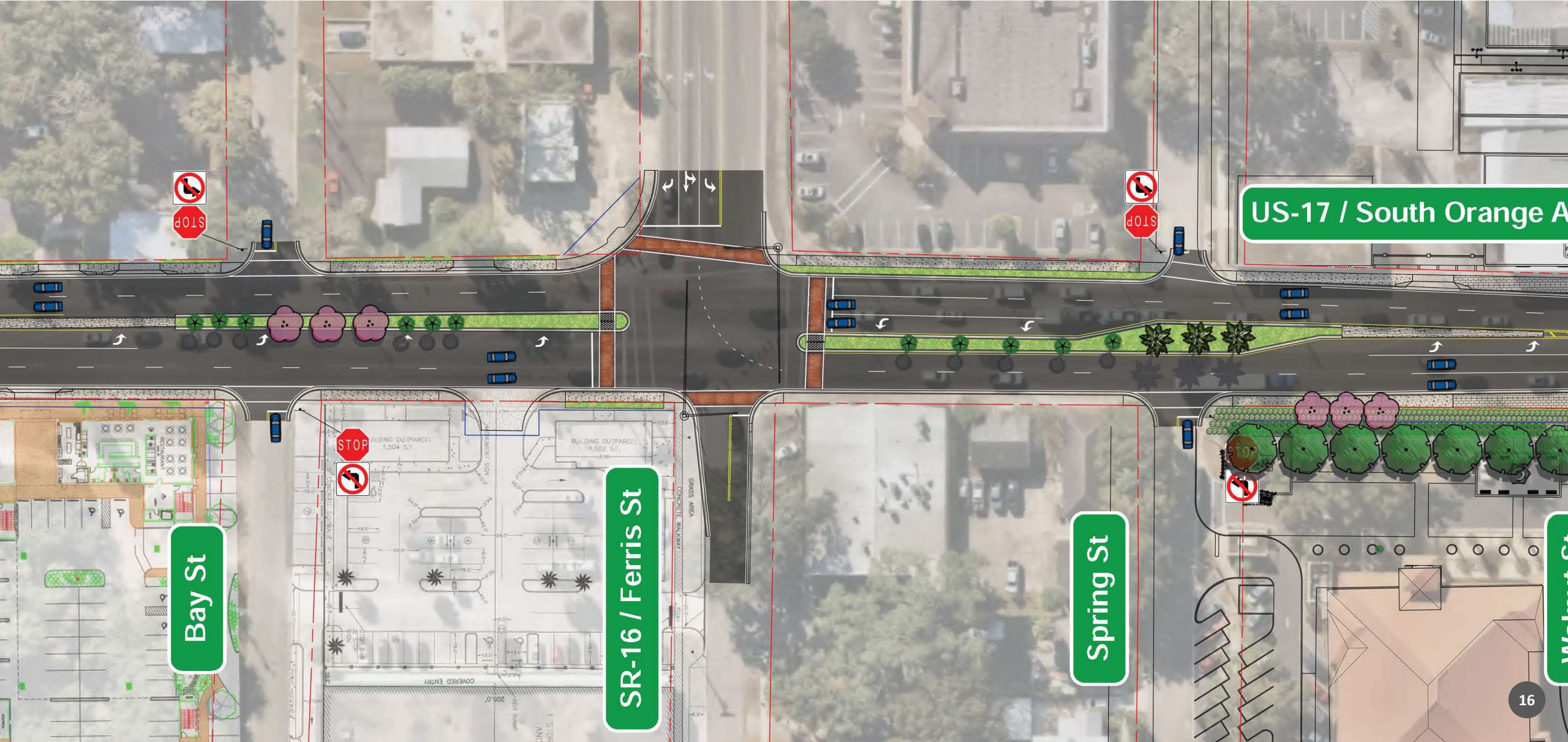


# Oak Street to Gum Street



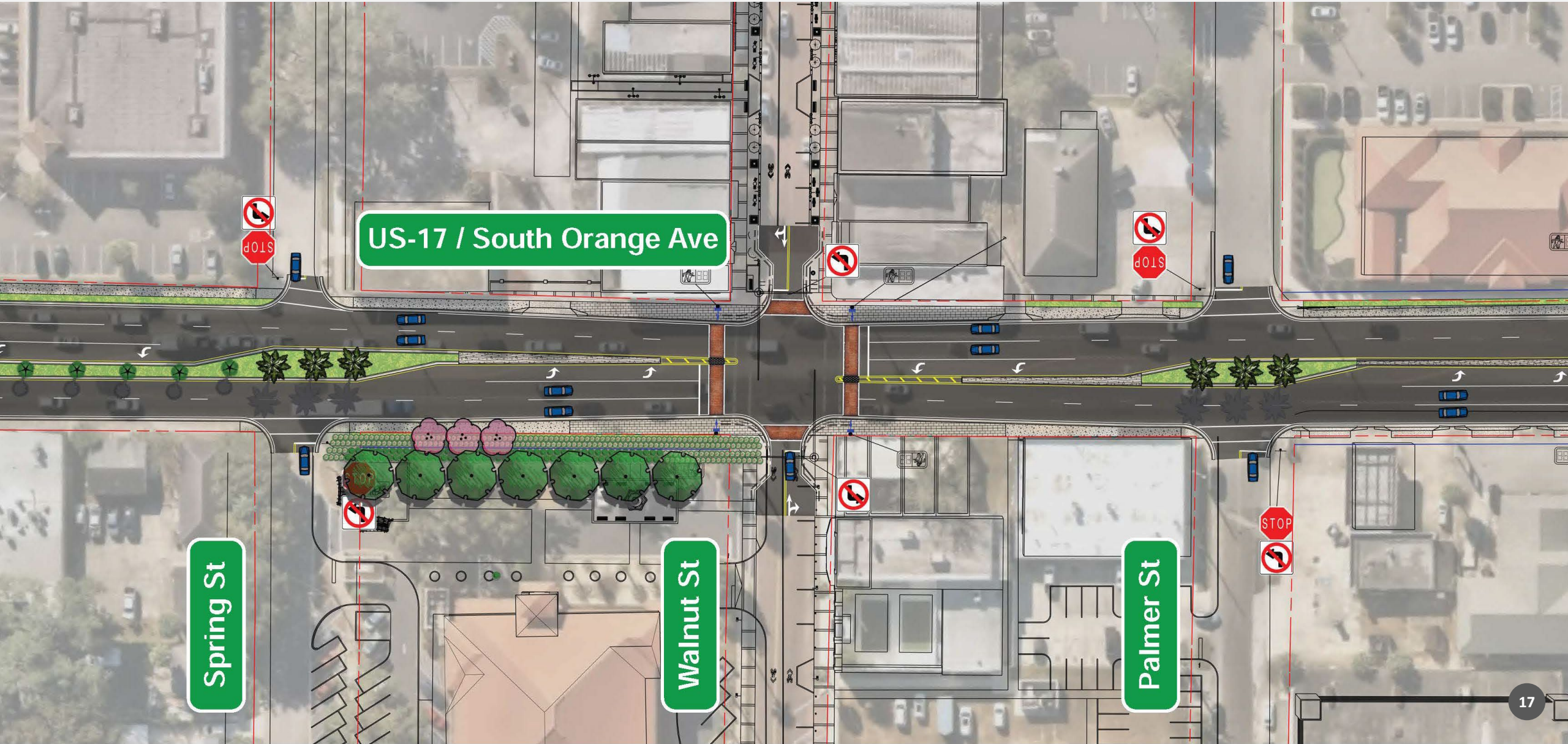
Ayrshire Parkway will likely reduce left-turn in the future

# SR-16 Ferris Street Intersection

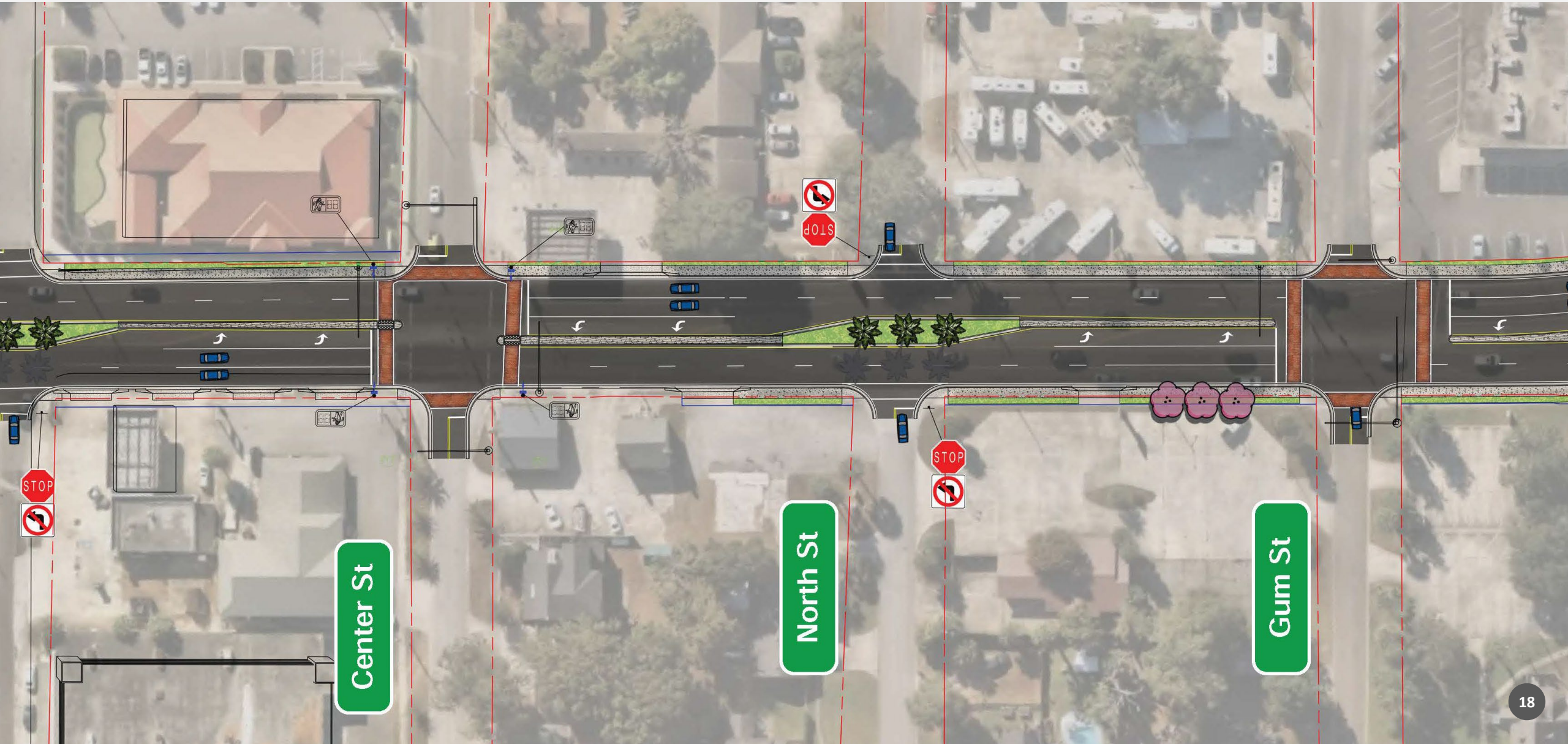




# Walnut Street Intersection



# Center Street and Gum Street Intersections







# Governor Street





# Right of Way Impacts

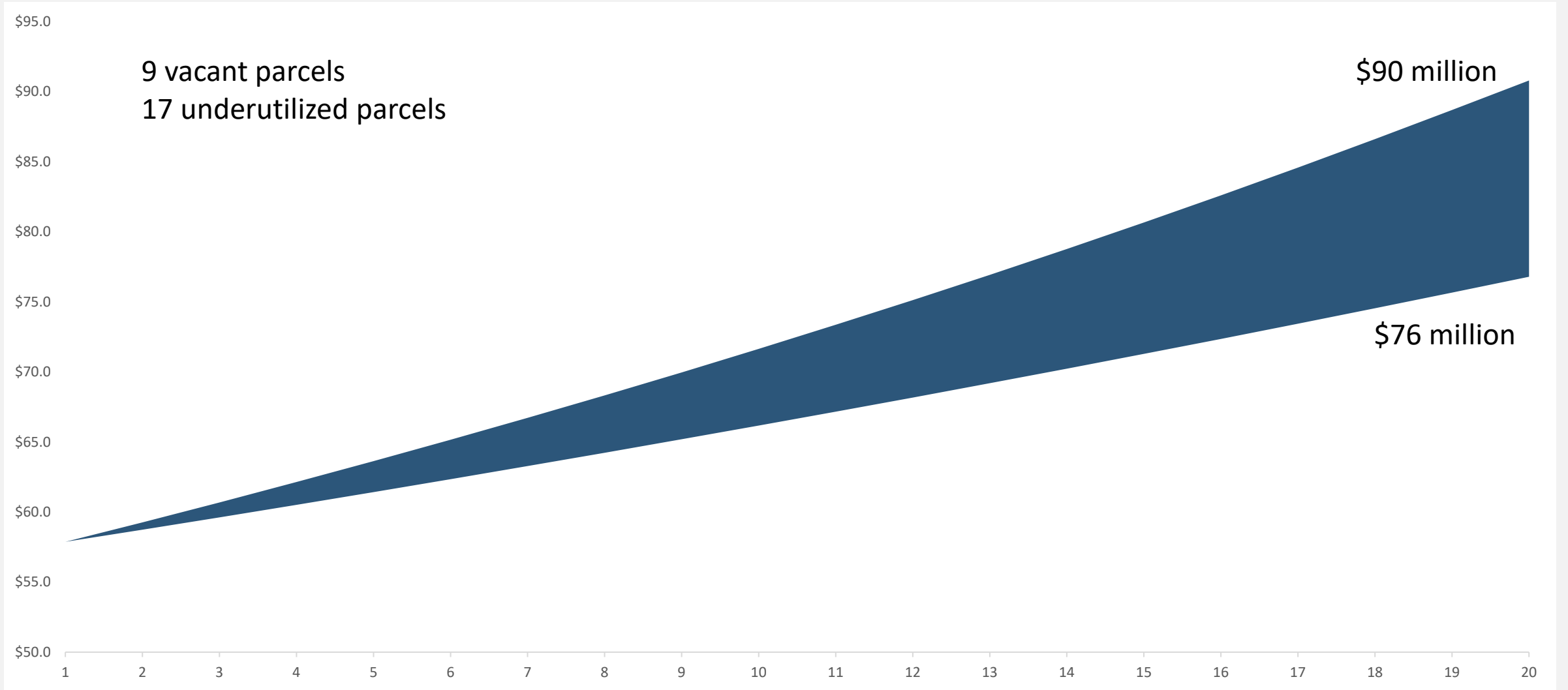
Item	Amount
Business Relocation	1
Acquisition	17
Temporary Easements	46
Total	62

# Project Costs

Item	Amount (millions)
Construction	\$10.2
Right of Way	\$4.9
Support Costs (Design, Construction Engineering)	\$2.1
Total	\$17.2



# Redevelopment Potential





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