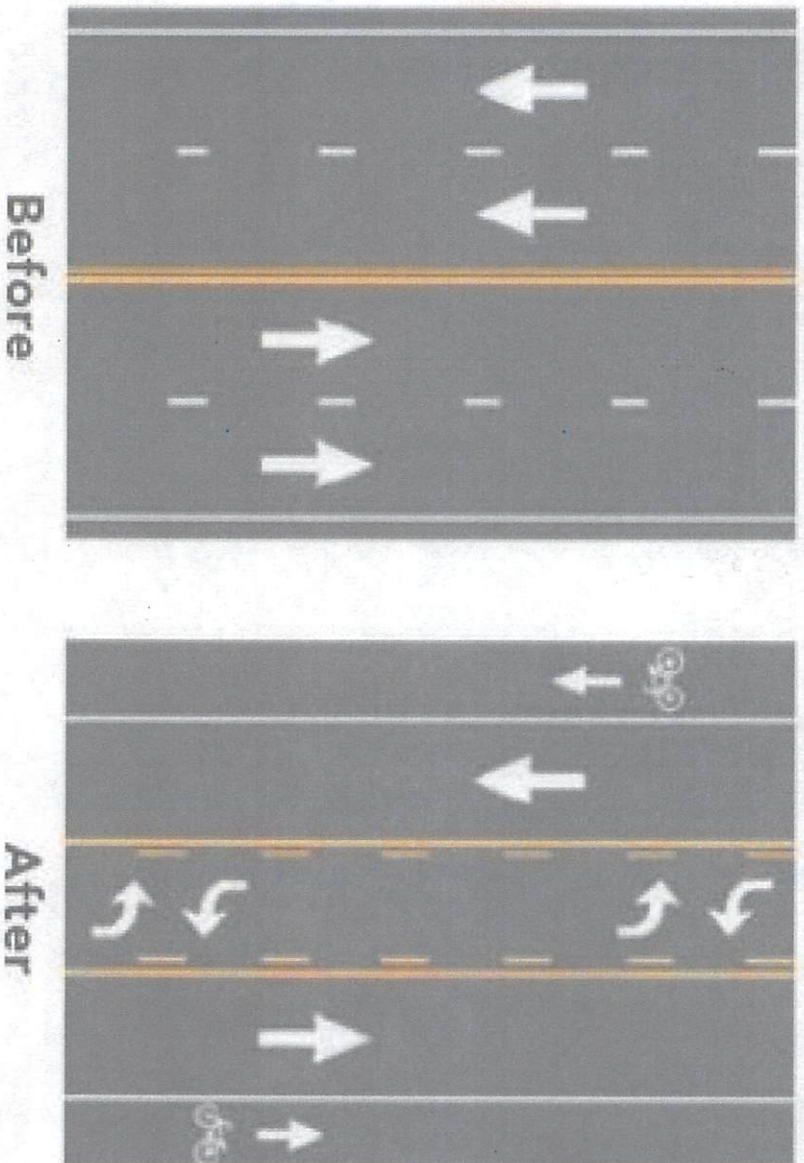




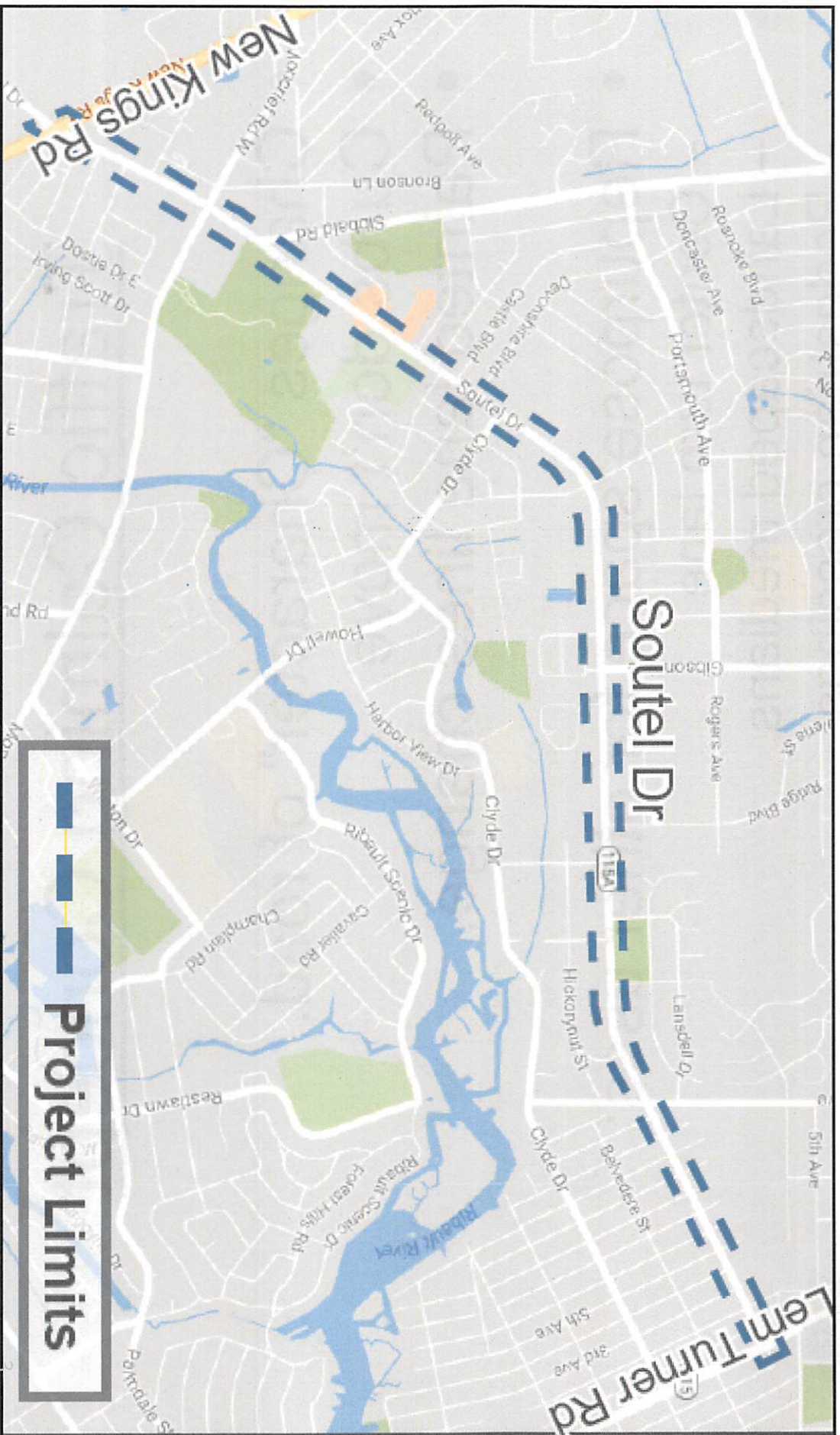
Soutel Drive Traffic Calming

3/4/2020

Traffic Calming Concept



Extent of Project



Traffic Calming Concept

- Changes “Character” of road.
- Curbs don’t move.
- Painted lane lines change.
- Repurpose space for other uses:
 - Center turn lane
 - Landscaped medians
 - Pedestrian crossings
 - Bike lanes



Conceptual Design

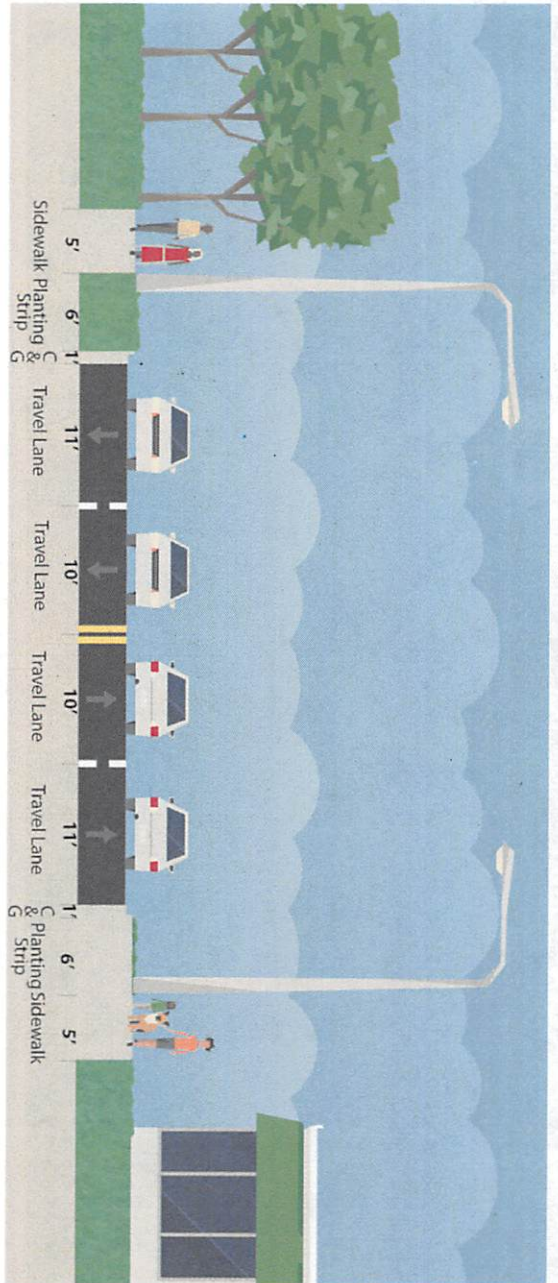


Existing

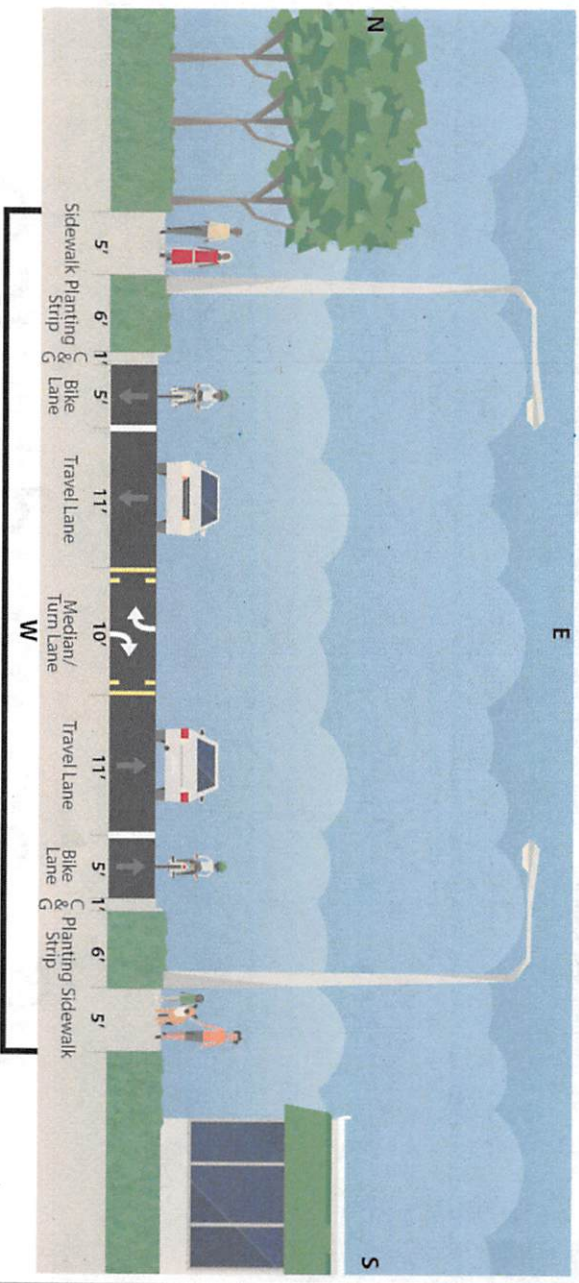


Proposed

Existing Soutel Drive



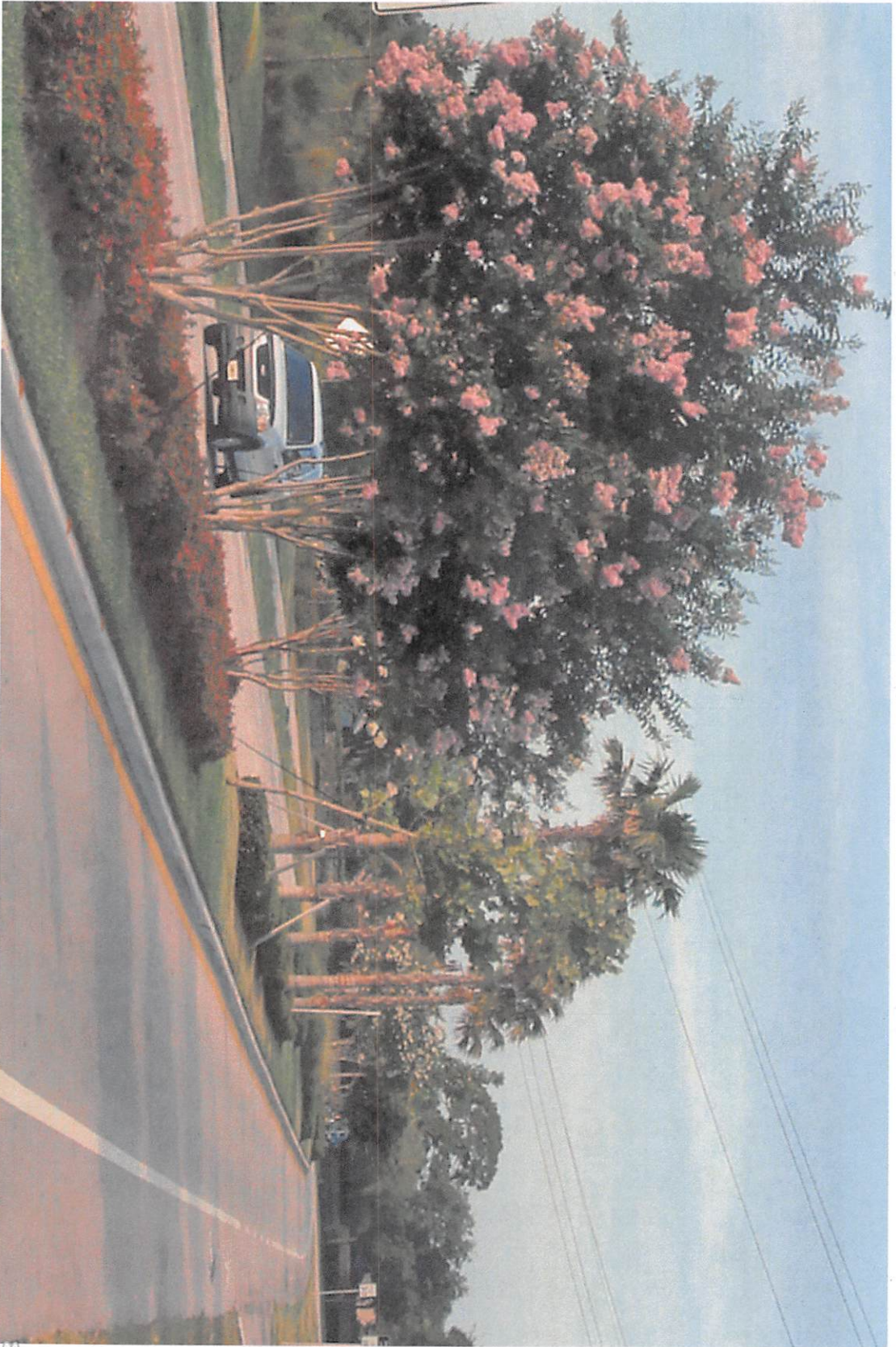
1B) Soutel Drive with Turn Lane and Bicycle Lanes



Improved Crossings



Landscaped Median



Bike Lanes



Other Traffic Calming Projects

- Past:
 - Tallulah Ave. (FDOT)
 - McDuff Ave. (FDOT & COJ)
 - San Marco Blvd. (COJ)
 - St. Augustine Rd. (COJ)
 - Hendricks Ave. (FDOT)
 - Riverplace Blvd. (COJ)
- Future:
 - Edgewood Ave. (COJ-Murray Hill)
 - Park St. (COJ-Brooklyn)
 - Soutel Dr. (COJ)
 - San Juan Ave. (FDOT)
 - Lenox Ave. (COJ)
 - Timuquana Rd. (FDOT)



Why Soutel Drive?

- Ideal candidate
 - Low traffic volume:
 - 12,000 VPD in 2025
 - 14,000 VPD in 2045
 - 17,760 VPD is 2 lane capacity
 - Safety, speeding and crashes
 - Not enough pedestrian crossings at bus stops, schools and parks
 - No bicycle lanes connect to New Kings Rd.
 - Key corridor in Bike/Ped Master Plan
 - Citizens' requests



Review of Existing Studies

- **2003 Northwest Jacksonville Vision Plan**
September, 2003

- **2017 King/Soutel Crossing Community Redevelopment Plan**
November, 2017

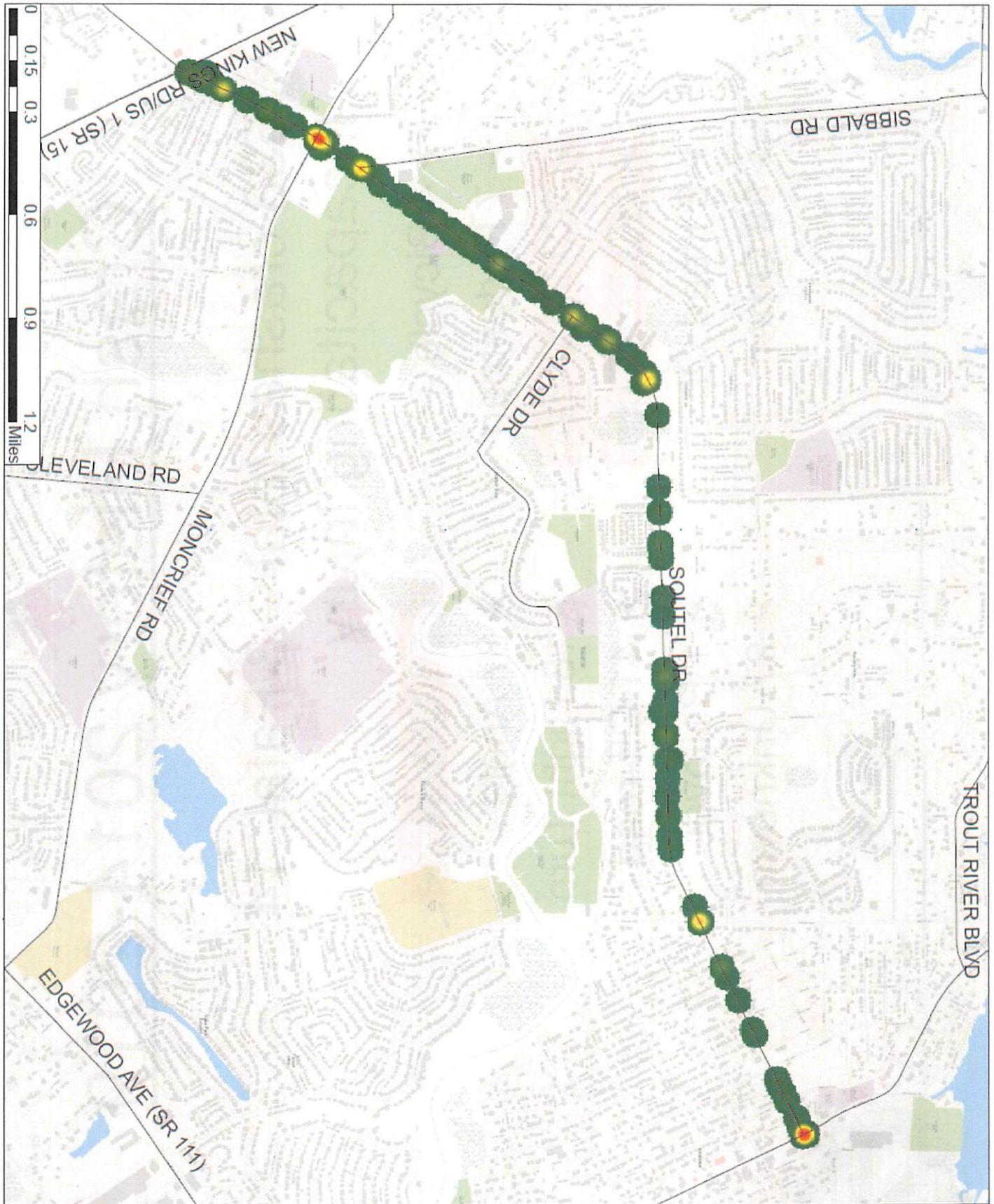
Report Review Summary

	2003 - Northwest Jacksonville Vision Plan	2006 - Sherwood Forest/Lincoln Villas Neighborhood Action Plan	2017- King Soutel Crossing Community Redevelopment Plan	2018- Issues Soutel Drive Lane Repurposing Can Address
1	Crime and Public Safety	√	√	
2	Landscape Streets	√	√	√
3	Jobs - Job Training	√	√	
4	Economic Revitalization	√	√	√
5	Traffic Safety	√	√	√
6	Drainage	√	√	
7	Water and Sewer Services	√	√	
8	Street Lighting	√	√	√
9	Increase Mobility and Connectivity	√	√	√
10	Improve Transit access	√	√	√
11	Pedestrian Safety - Sidewalks	√	√	√
12	Reduce Auto-dominated design	√		√
13	Enhance Parks and Openspace	√	√	√
14	Strengthen Code Enforcement	√	√	√
15	Litter Clean-up	√	√	
16	Placemaking	√		√
17	Gateways, Signs and Wayfinding	√	√	√
18	Provide for all Modes - Bikes	√		√
19	Commercial Façade Improvement	√	√	√
20	Housing Rehabilitation		√	
21	Build Social Capital		√	
22	Add Art in Public Places		√	
23	Traffic Calming		√	√

Why Traffic Calming?

- **Safety!!!**
 - Safer for turning traffic
 - Slows down vehicles
 - Safer for pedestrians
 - Safer for bicyclists
 - Safer for trucks turning
- Reduce crashes by 19 – 47%
- Achieve neighborhood goals





Soutel Drive Crash Density: 2012-2016

Map Generated by City of Jacksonville
 Planning and Development Department
 Transportation Planning Division



Crash History 2014-2019

- 533 crashes total – 3 Fatal, 14 Incapacitating Injury

- 4 Bicycle

- 7 Pedestrian

- 120 Rear End

- 129 Left Turn

- 8 Head On

- 88 Other

- 53 Sideswipe

- 37 Angle

- 18 Right Turn

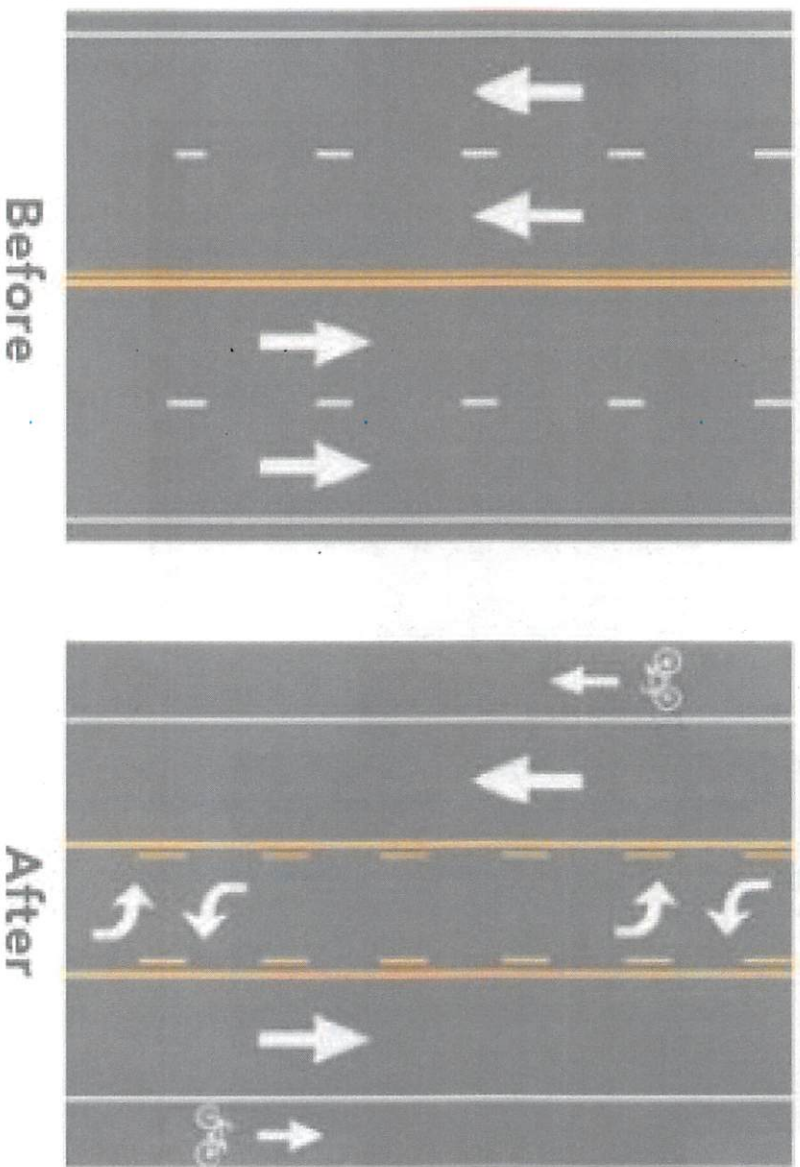
- 41 Off-road

- 1 Rollover

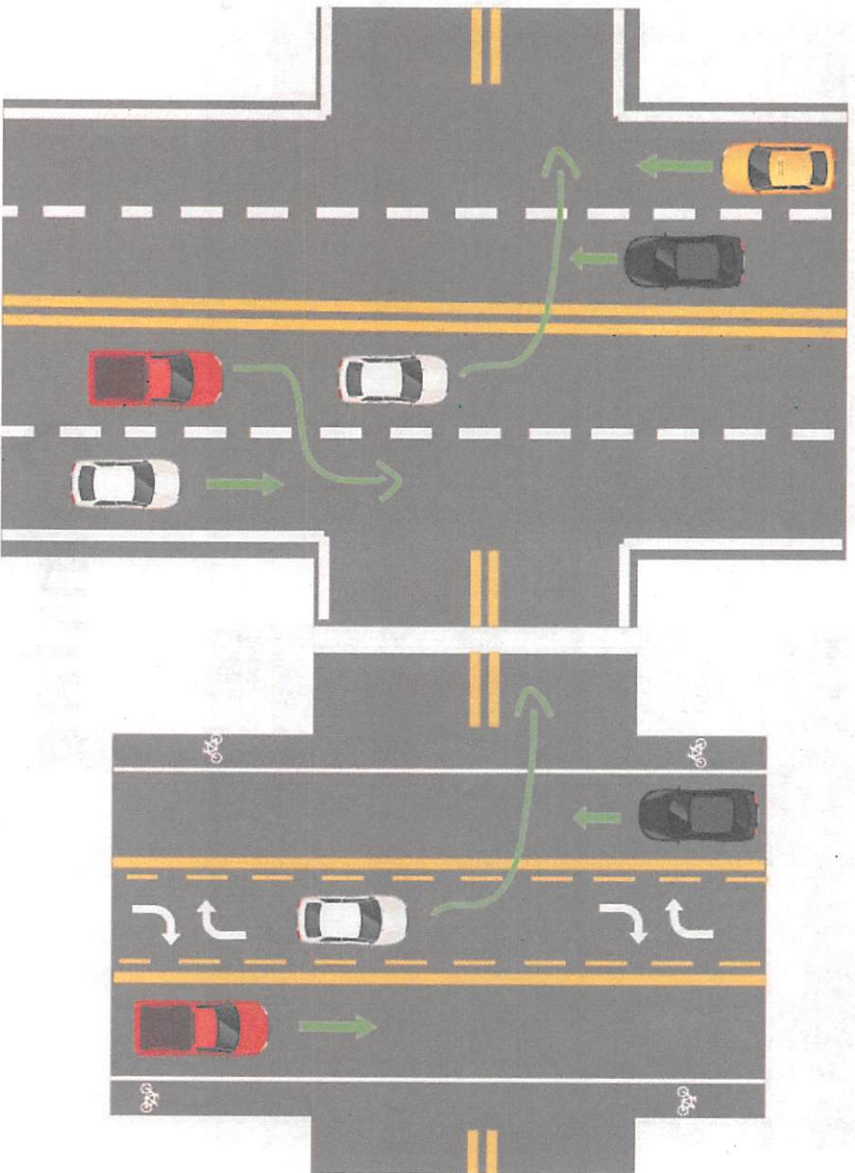
- 27 Unknown



Safety Benefits of Traffic Calming

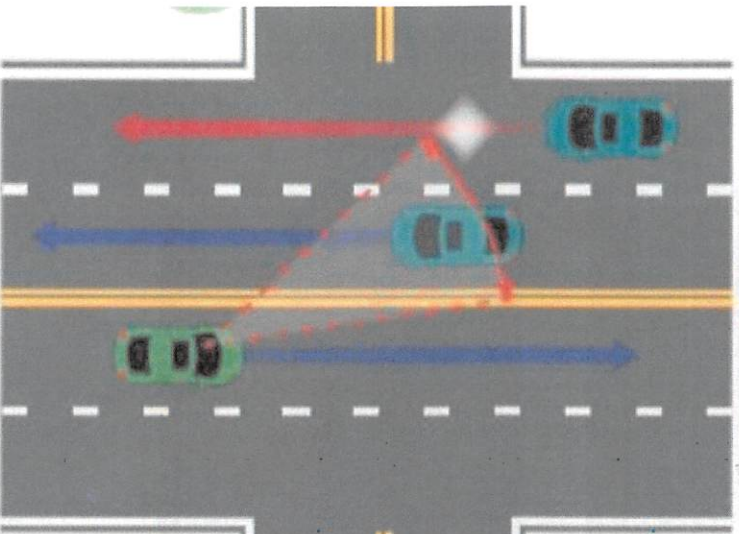


Vehicle Conflict Points

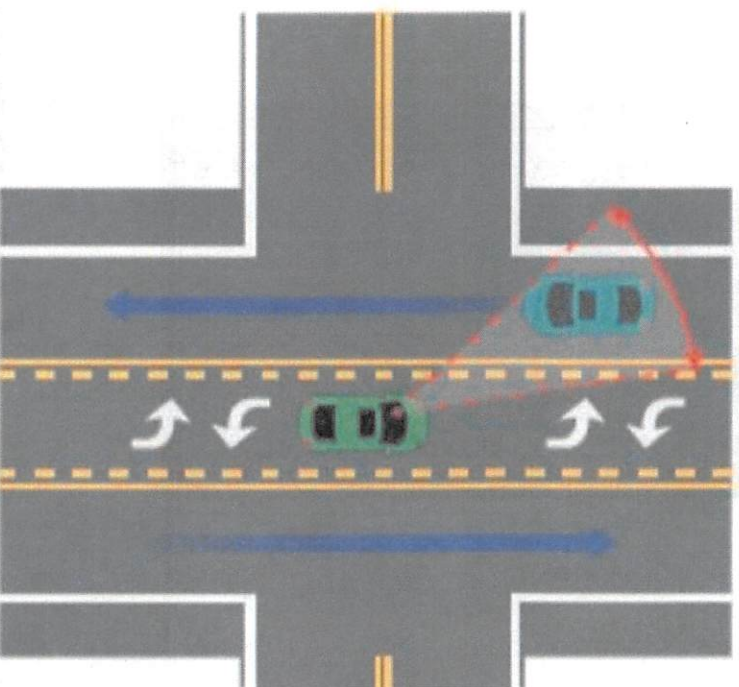


Drivers' Sight Distance

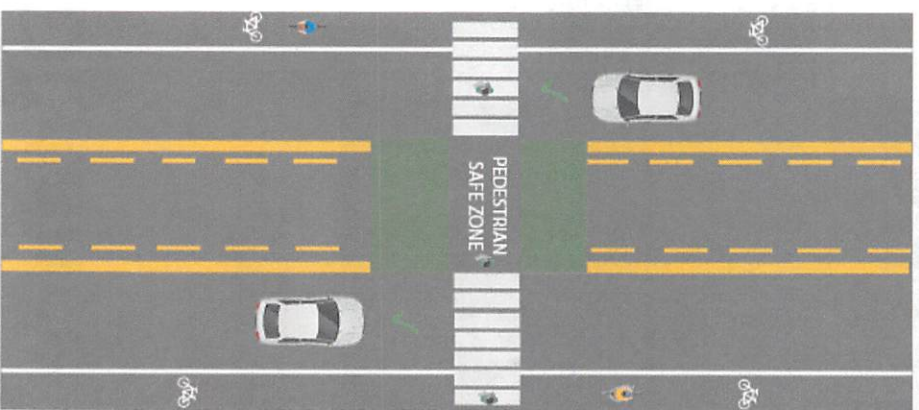
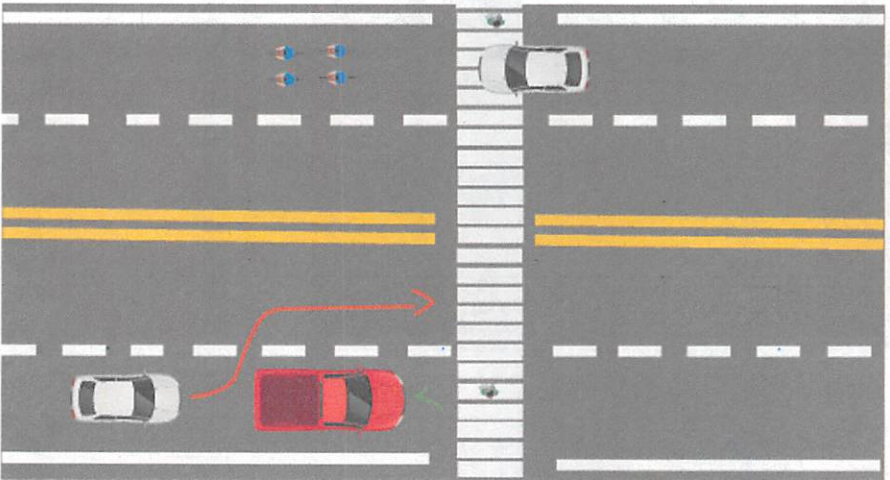
Four-Lane Undivided
(Outside Lane Traffic Hidden by
Inside Lane Vehicle)



Three-Lane
(No Hidden Vehicles)

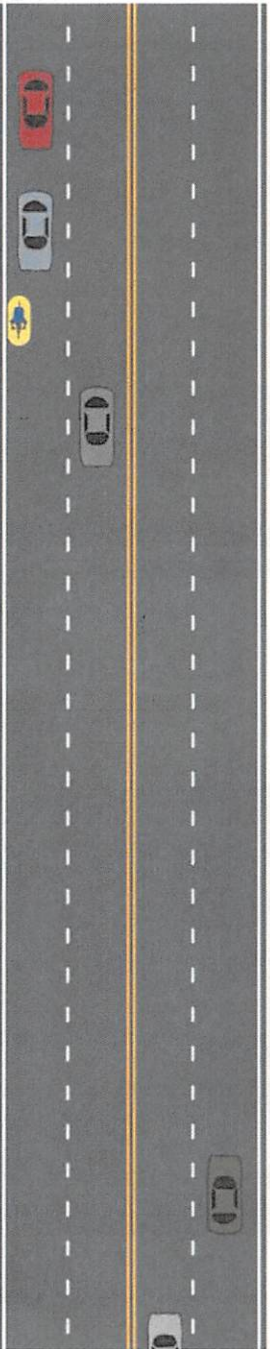


Pedestrian Safety

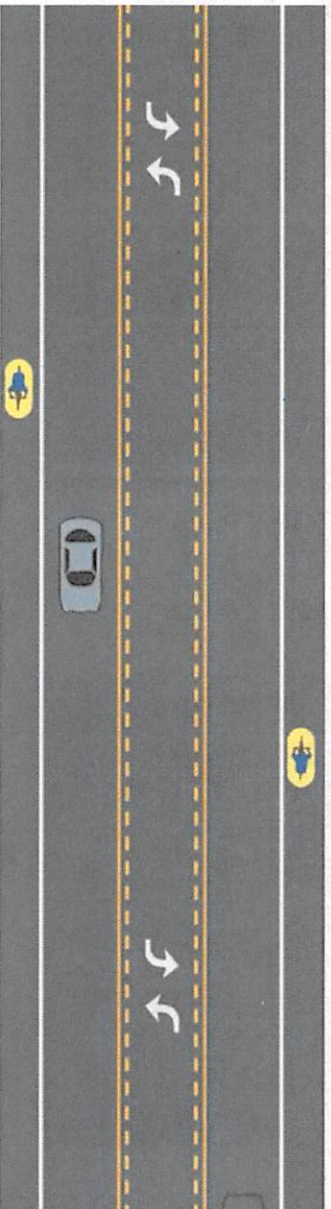


Bike Lanes

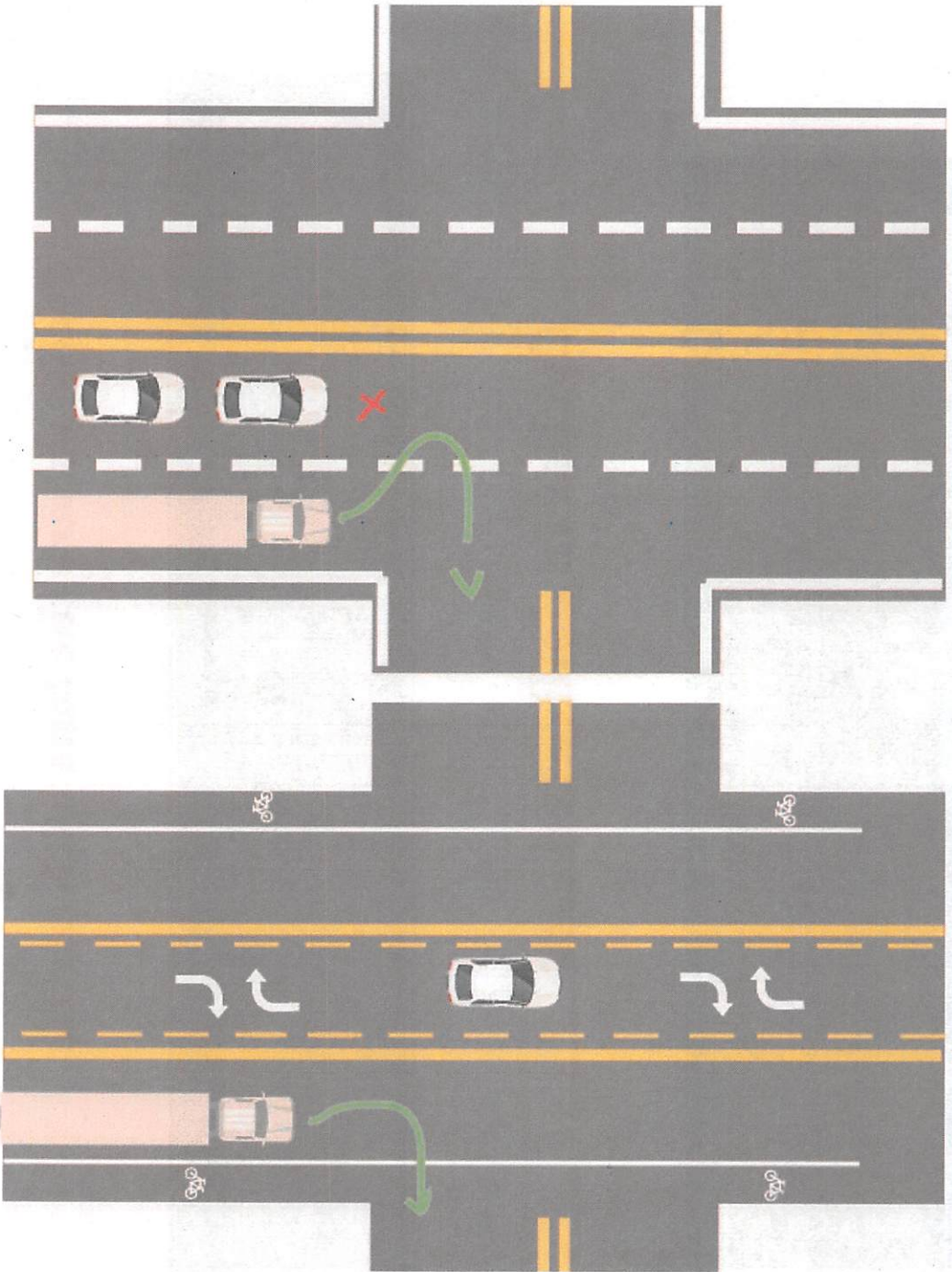
Cyclists share the lane with traffic



Cyclist in dedicated lane



Truck Turning

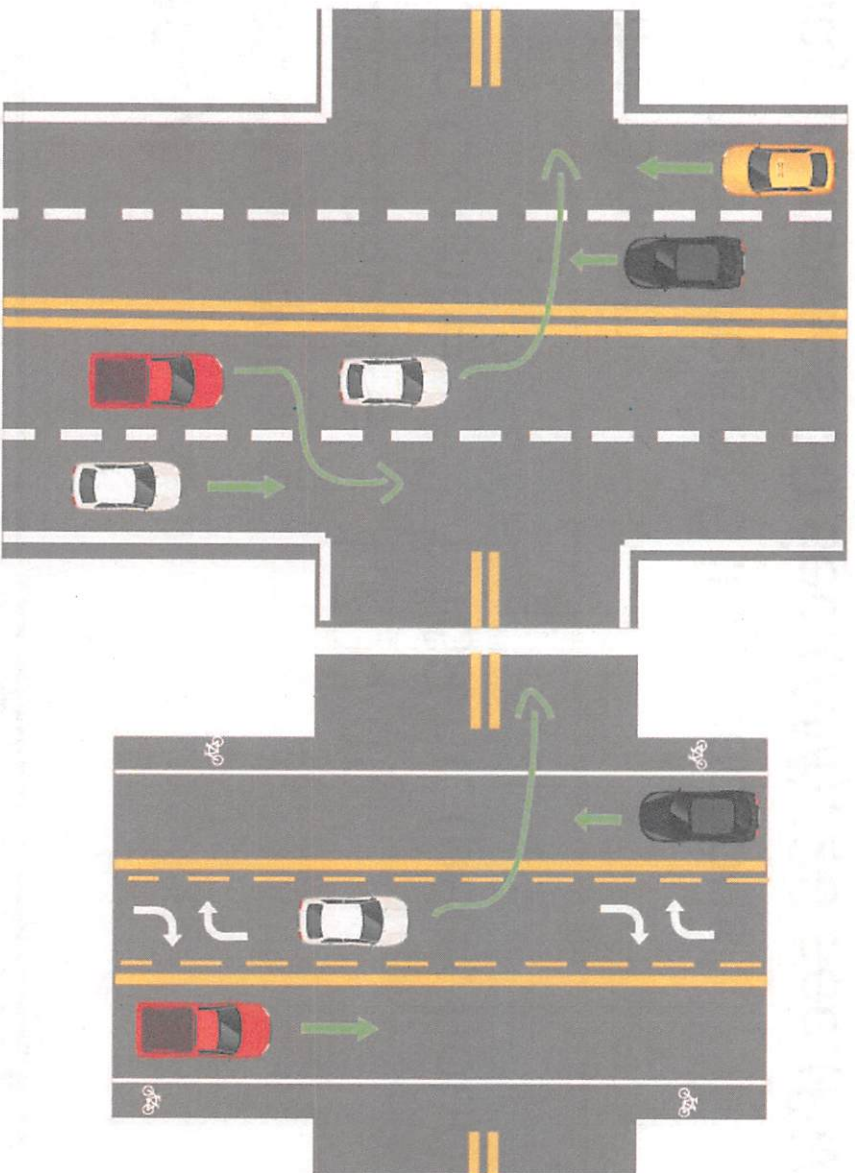


Why Traffic Calming?

- Capacity!
 - Road Segment
 - 2 lane capacity = 1,700/hr.
 - Traffic Count = 1,169/hr. (peak hour)

 - Traffic Signal
 - Level of Service at 6 intersections
 - Delay increases 10 sec.(AM), 26 sec.(PM)
 - Travel time from Lem Turner to New Kings goes from 9.5 to 10.0 minutes

Turns Reduce Capacity



Soutel Drive Historic Daily Traffic Counts

	2012	2013	2014	2015	2016	2017	2018	2019
New Kings Rd to Moncrief Road	11,500	11,613	12,131	13,297	13,188	13,184	11,652	13,879
Moncrief Rd to Norfolk Blvd.	9,651	8,175	9,711	10,709	10,201	10,391	10,735	10,423
Norfolk Blvd to Lem Turner Road	8,543	8,247	9,189	9,738	8,762	9,341	7,906	9,475

Capacity: 4-lane undivided = 25,515 VPD

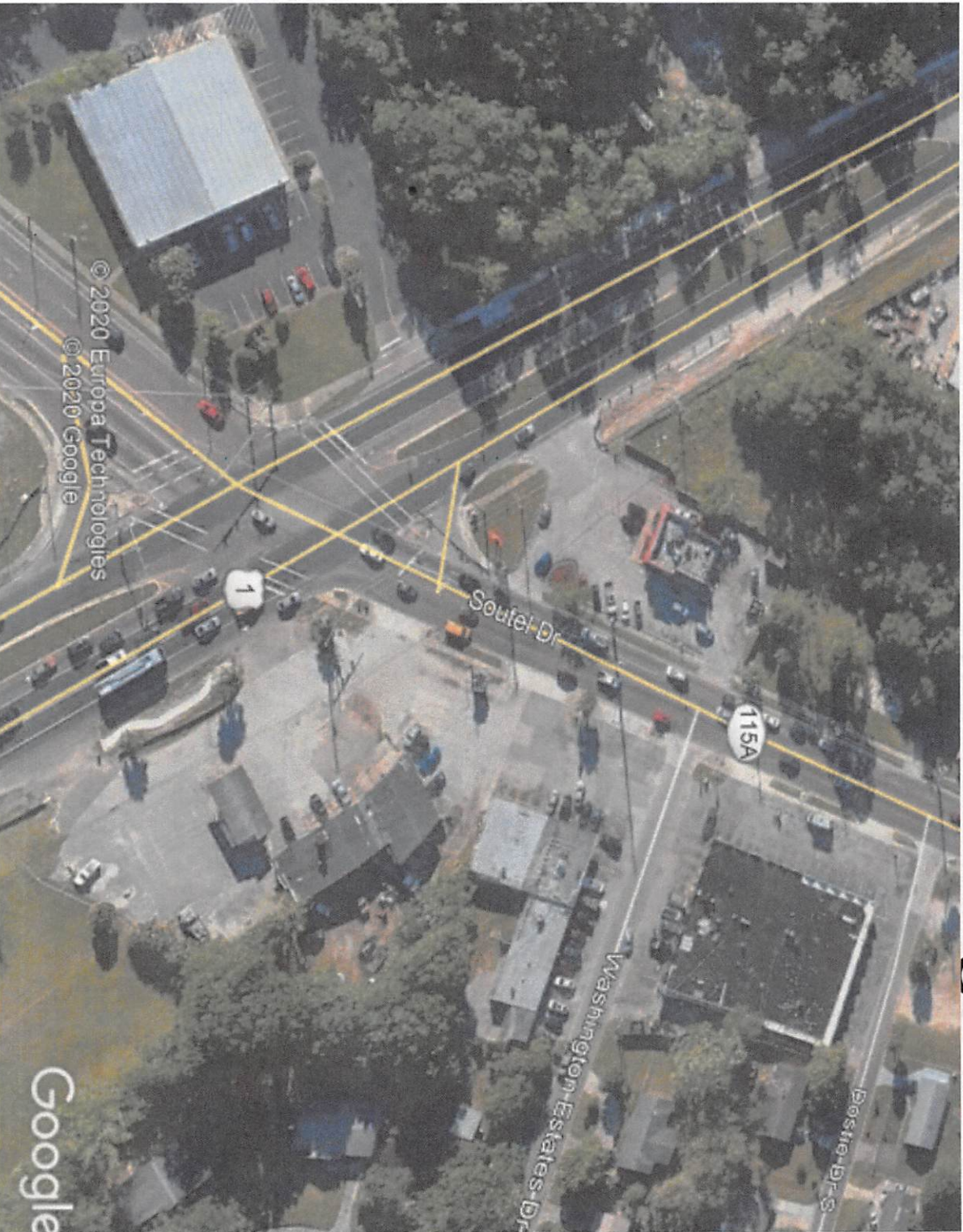
2-lane divided = 17,766 VPD

Additional Improvements

- **New Kings Rd.** - Dual Left-turns
- **Moncrief Rd.** - Add right turn
- **Leander Shaw**- Left turn signal
- **Norfolk Blvd.** - New signal, traffic calming, parking



Soutel Dr. at New Kings Rd.



Soutel Dr. at Moncrief Rd.



Soutel Dr. at Leander Shaw Jr. Dr..



Soutel Dr. at Norfolk Blvd.



Additional Improvements

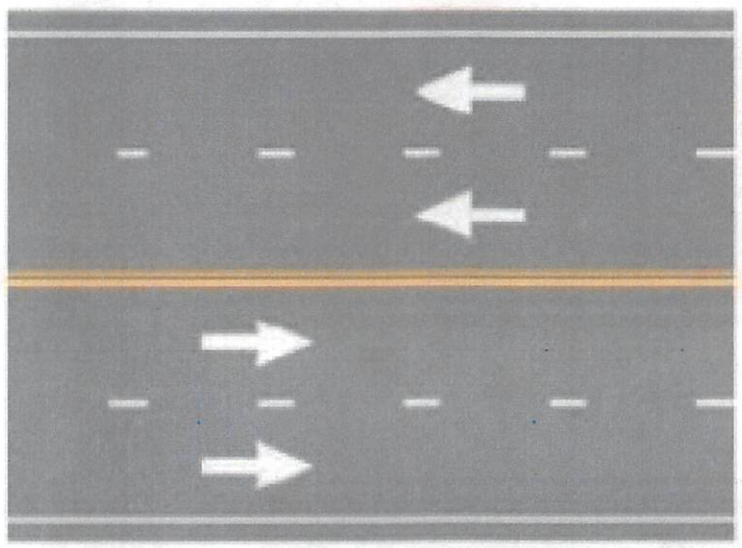
- More street lighting
- Plant trees and greenery
- Fix broken sidewalks
- Resurface pavement



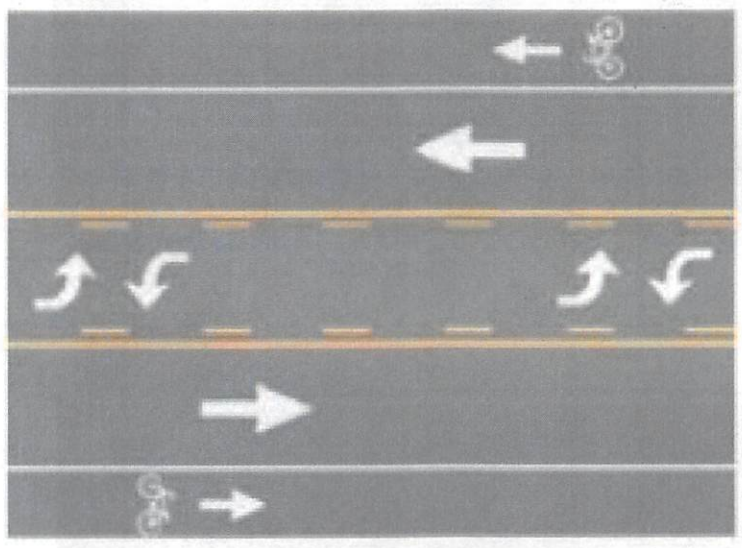
COJ Soutel Drive Process Recap

- Existing Studies
- Field Review - Walk Audit
- Traffic Calming Assessment
- Conceptual Design
- Community Outreach
- Traffic Engineering Study
- Funding Approved
- Next steps:
 - Design Plans
 - Construction

Questions?



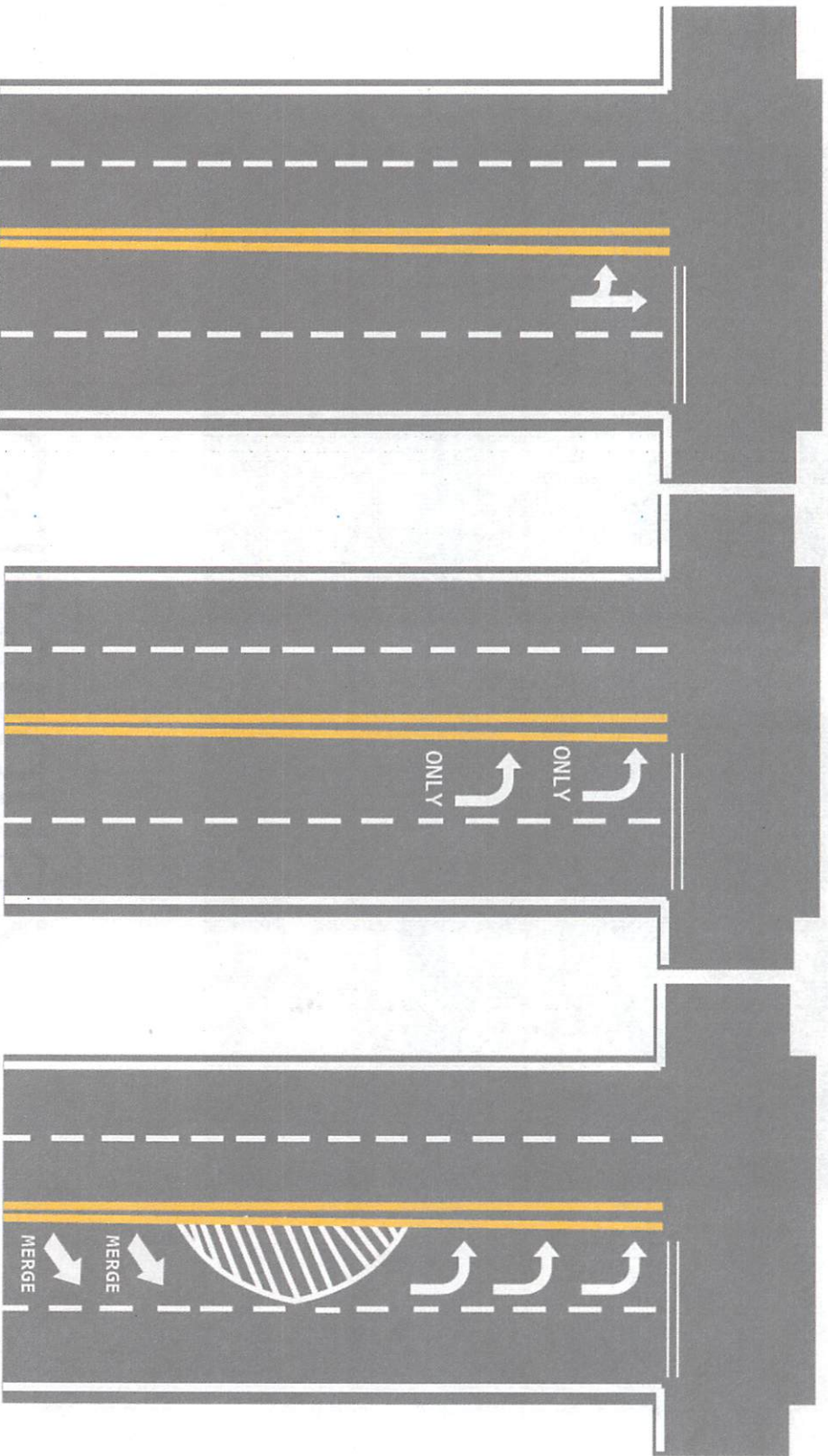
Before



After



Turn Lanes



Existing Permissive
Left Turn

Trap Lane

Merge Lane