

FACERS

Florida Association of
County Engineers
& Road Superintendents



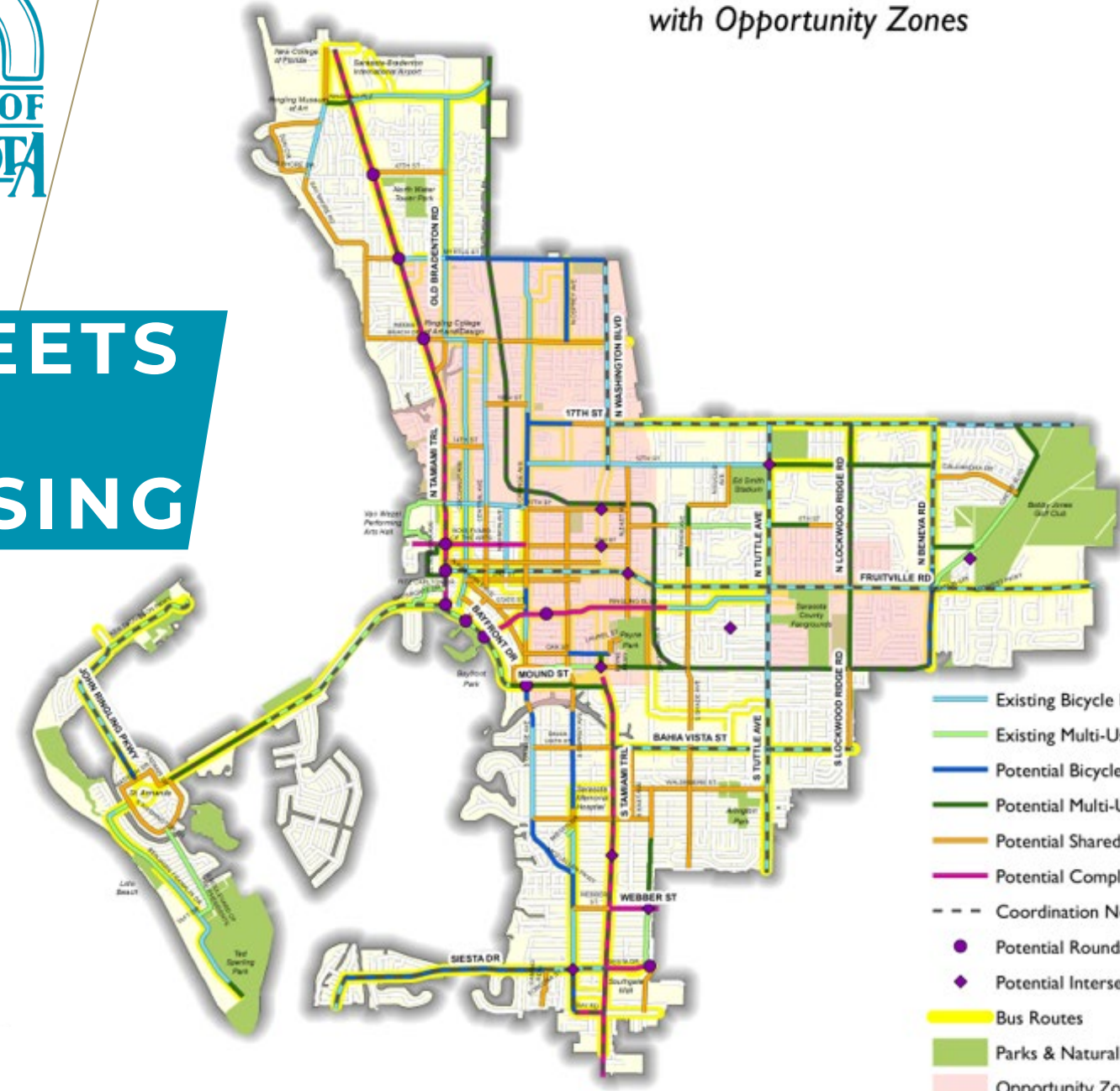
Multimodal Connections Plan with Opportunity Zones

COMPLETE STREETS & LANE REPURPOSING

Nikesh Patel

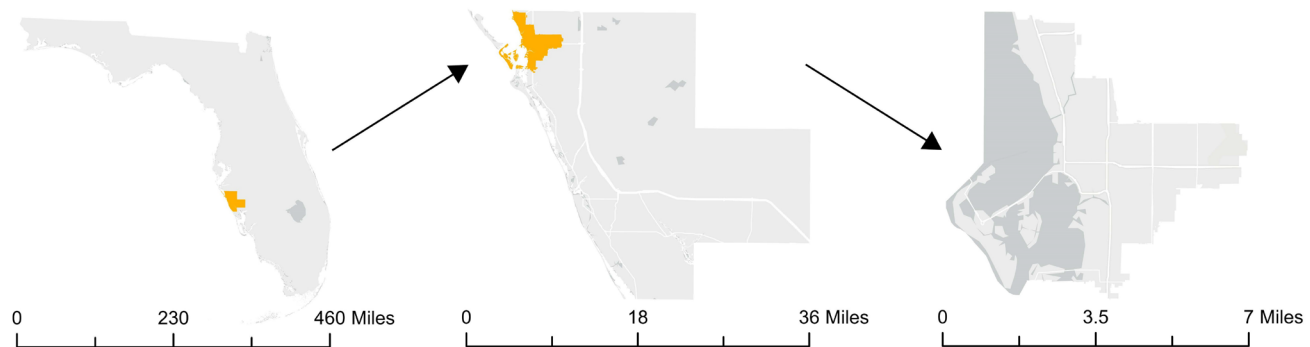
City Engineer

PE, PTOE, CPM, CGC, AICP

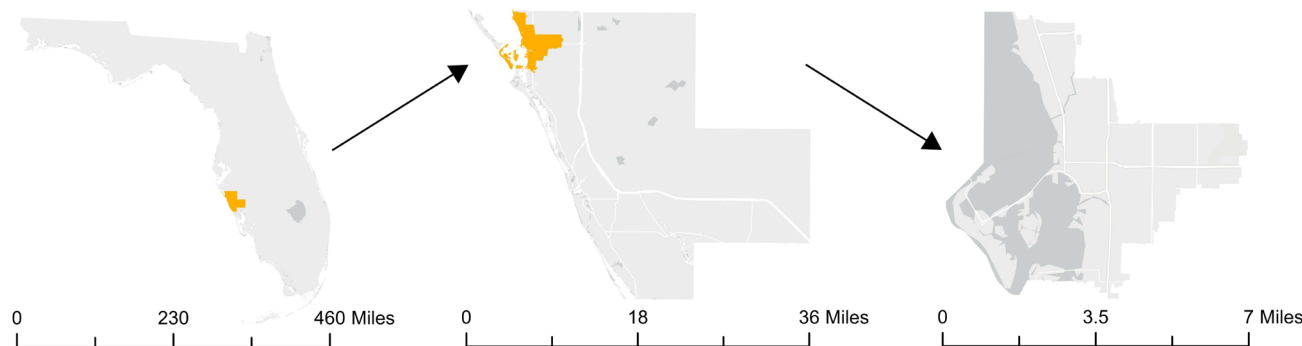


- Existing Bicycle Lanes
- Existing Multi-Use Path
- Potential Bicycle Lanes
- Potential Multi-Use Path
- Potential Shared Lane Markings
- Potential Complete Streets
- Coordination Needed
- Potential Roundabout
- Potential Intersection or Crossing Enhancement
- Bus Routes
- Parks & Natural Land
- Opportunity Zones

CITY OF SARASOTA



CITY OF SARASOTA



- Population: ~ 60,000
- Roundabout: 13
- Traffic Signals: 93
- City Streets: 232 miles
- Street Lights: 4,535
- No. 1 in Florida & Top 10 places to live in the U.S.





RINGLING TRAIL COMPLETE STREET

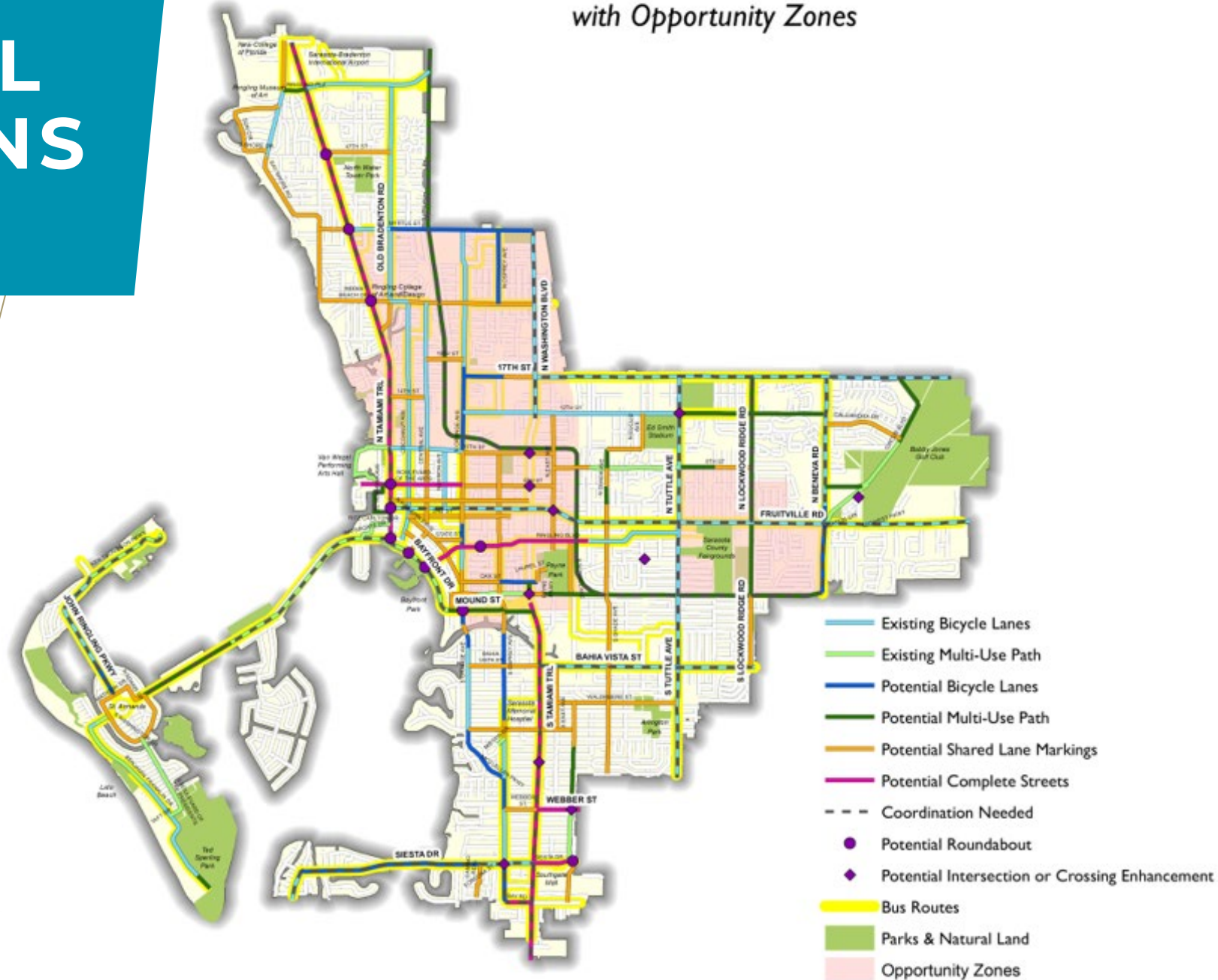
- Case Study for lane repurposing project to reassign roadway space to achieve other purposes such as safety, economic development, and mobility for all users.



MULTIMODAL CONNECTIONS PLAN

- City Commission adopted the plan in 2019
- Ringling Trail Complete Streets

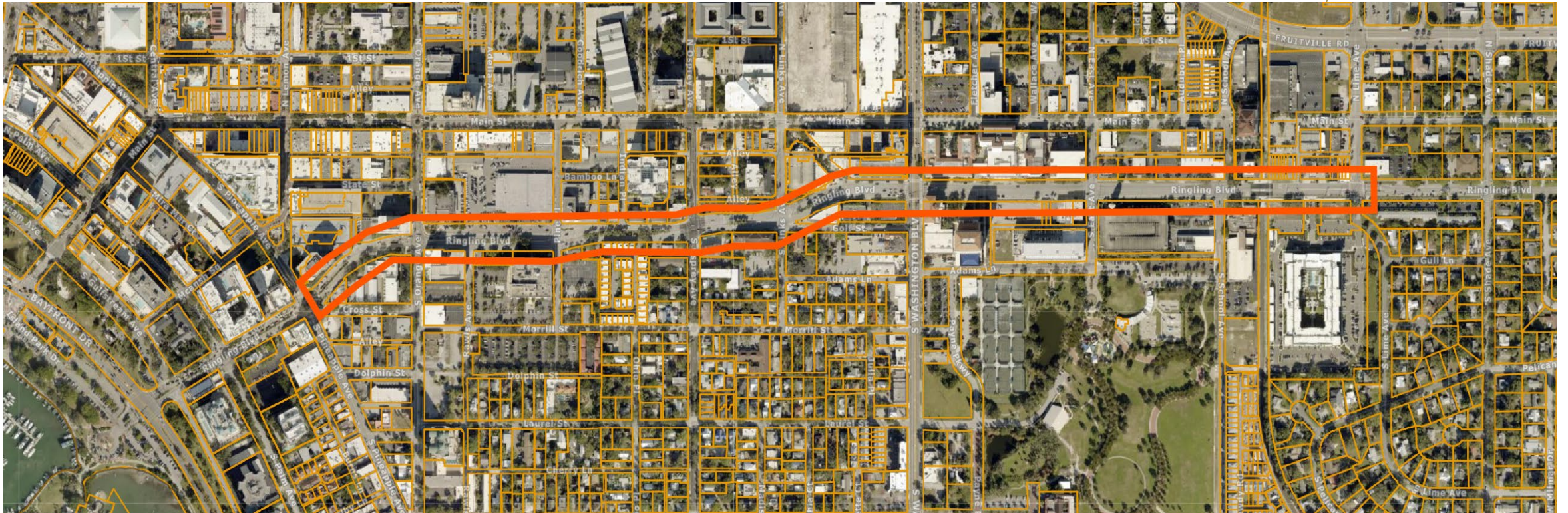
Multimodal Connections Plan with Opportunity Zones



RINGLING TRAIL COMPLETE STREETS



PROJECT CORRIDOR



REGARDING THE ALIGNMENT PLANNING CONSISTENCY OF THE MPO-SUN TRAIL

Anna Maria
Island Trail

GULF OF MEXICO DR

UNIVERSITY PKWY

UNIVERSITY PKWY EXT

FRUITVILLE RD

BEE RIDGE RD

CLARK RD

Legacy Trail
Northern Extension

Legacy Trail,
Osprey Junction Trailhead

Legacy Trail
75

LAUREL RD E LAUREL RD EXT



GBARTA

Tampa Bay Area Regional Transit Authority

MPO Chairs
Coordinating Committee

Inset : Hillsborough County

Lanatee

Sarasota

ENTERING DOWNTOWN





LEGACY TRAIL EXTENSION

- 500,000 Users Per Year



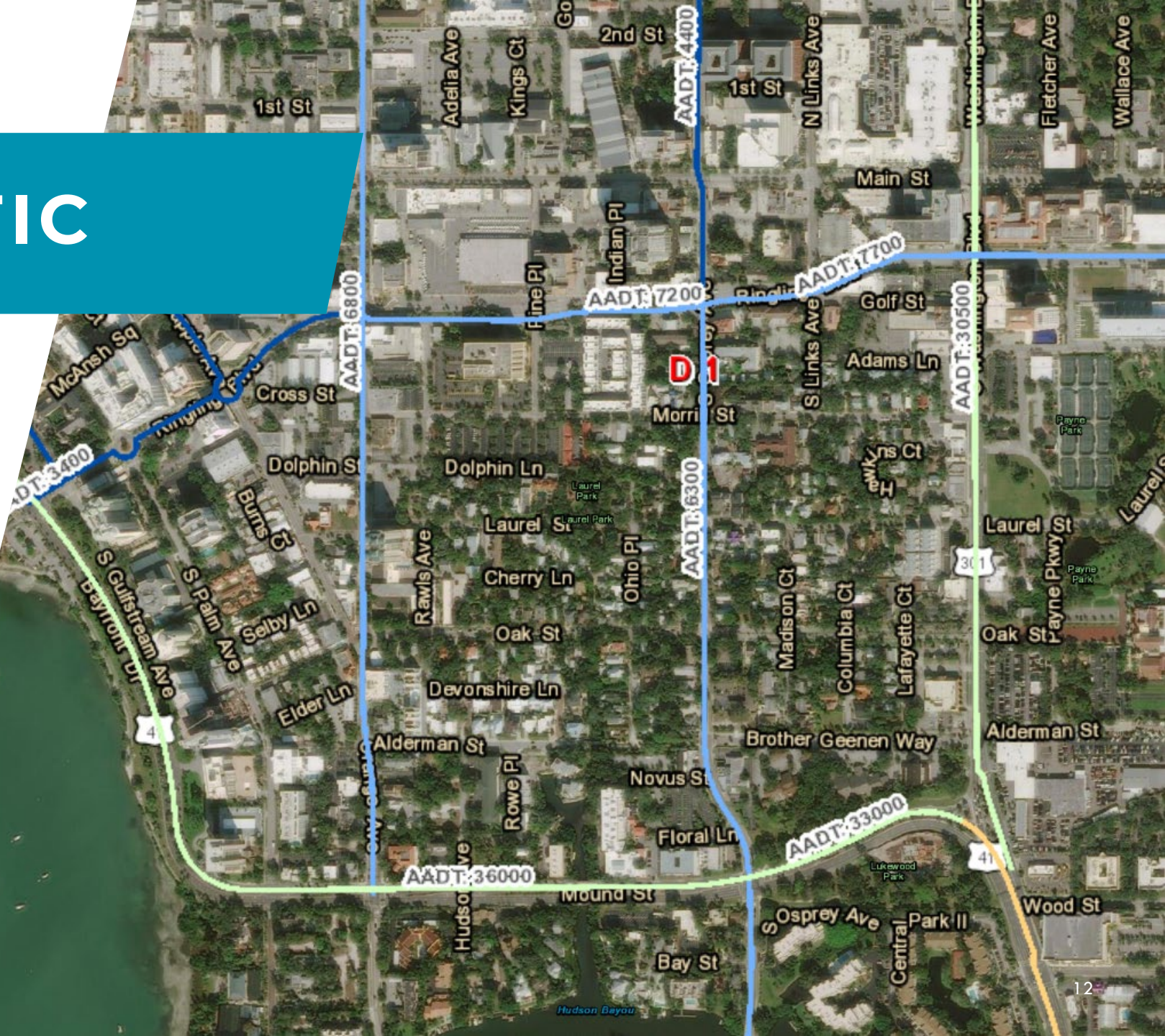
LIGHT TRAFFIC

Approaching US 41,
traffic goes down.

Less than 10,000
AADT: Great
candidate. Capacity
will most likely not
be affected.

10,000-20,000: Good
candidate. Review
signal timing.

More than 20,000:
Capacity may be
affected.



TWO-LANE AT ENDS





CONCEPT PLAN KEY DECISION

- Two-way or one-way separated bike lanes?
- Simpler and safer to have one-way lanes.
- Don't have to cross bicyclists back over at the ends.
Save more parking and wouldn't have vehicles on the wrong side of the median.





LANE REPURPOSING

Ringling Blvd. is not an evacuation route.

Great range for reimagining as a Complete Street.





TRAFFIC STUDY – KEY FINDINGS

- Pre-COVID traffic counts were used.
- Traffic has been decreasing overall the past 5 years and is lower than it was in 2002.
 - 14,920 cars in 2002 down to 7,900 in 2019.
- Assuming 1%/yr traffic growth through 2040, repurposing the outside lanes will generally result in good traffic flow and will remain within the City's adopted LOS.
- Four (4) right-turn movements to monitor.
- Left turn to be added at Ringling Blvd. and East Ave.



Public Survey

Get a sense of preferences

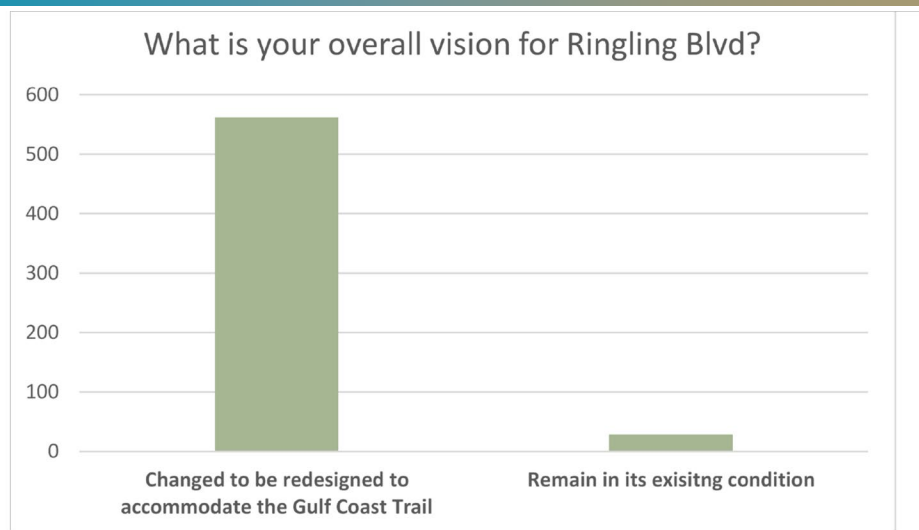
Get overall feedback

Note comments

Mailers sent out to adjacent parcels

Neighborhoods and other stakeholder groups contacted to participate

OUTREACH – OVERWHELMINGLY POSITIVE RESULTS



DESIGN APPROACH

Give a whole-hearted invitation for bicyclists to get out and bike.

Imagine a relative bicycling it.

Would you want to bike it?



STAKEHOLDER ENDORSEMENTS



DID OPERATIONS MANAGER eREPORT DECEMBER 1, 2020
 Distributed to DID Taxpayers, City Commissioners, City Manager, Deputy City Manager, City Staff, Downtown Organization Leaders, Media, DID Consultants & Contractors and Vendor's and Individuals mentioned in the report.
 The eReport is generally distributed the week before each monthly board meeting.

ACTIONS & AGENDAS
October 29 Board Action Headlines

W.A.N.E. Tree Support System Maintenance Approved
 To keep our street and park trees looking like this.




More Holiday Décor Funded By The DID



Unanimously Endorsed
 Ringling Trail endeavors to make it easy and safe for trail users to get from the Legacy Trail at Payne Park over to Downtown's shops, offices, homes and parks.



December 1, 2020 Agenda Items
 10:00 a.m. City Commission Chamber, City Hall, 1565 First Street, Sarasota, Florida 34236
 Citizens wishing to provide public input in person during the meeting should report to room 112 to be escorted to the Chamber when prompted by the staff member in attendance. Citizens may view and listen to the proceedings via live streaming through the City's website.



DATE: January 9, 2021

TO: Mayor Hagen Brody, Vice Mayor Eric Arroyo, Commissioners Jen Ahearn-Koch, Liz Alpert and Kylie Battie

CC: Director of Planning Steven Cover, Transportation Planner Colleen McGue and Deputy City Engineer Dan Ohrenstein

FROM: Eileen Normille, President, Downtown Sarasota Condo Assoc.
 Roger Barry, Chair of DSCA Transportation Committee

RE: Ringling Bicycle Trail

The Board of Directors of the Downtown Sarasota Condominium Association (DSCA) has enthusiastically endorsed the construction of the Ringling Bicycle Trail from the Legacy Trail to Pineapple Avenue in downtown Sarasota. Thousands of people are currently using the Legacy Trail and with its completion to Fruitville Road significant additional numbers of people will have access to the trail.

We endorse the construction of the Ringling Trail because:

Many downtown condominium residents have bicycles and seek a safe place to ride. The Ringling Bicycle Trail would provide easy and safe access to the Legacy Trail.

The bicyclist using the Legacy Trail would find downtown Sarasota as a safe and interesting destination enhancing downtown businesses.

The Ringling Bicycle Trail would help connect the Legacy Trail to the Bay Front and to the MURI which leads to St. Armand's and the barrier Islands.

A safe downtown bicycling trail will encourage the use of bicycles for citizen health and recreation in addition to reducing the number of vehicles on the road. The major complaint about not using our bicycles is there are few places bicyclists feel safe. A safe connection from downtown to the Legacy Trail will enthusiastically be received.

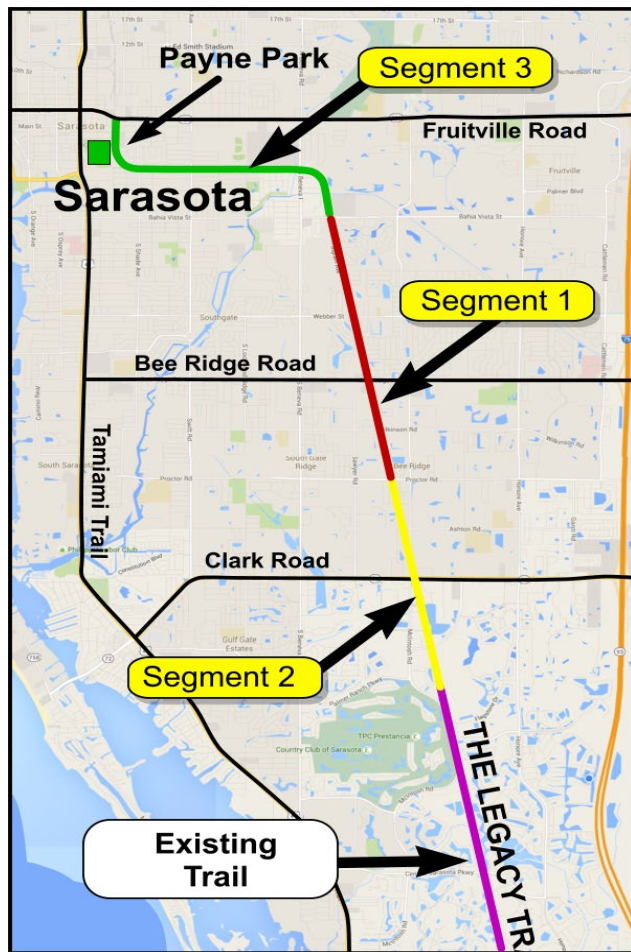
From: marcari@srqmortgages.com <marcari@srqmortgages.com>
 Sent: Thursday, December 17, 2020 2:08 PM
 To: Nancy Kelly <Nancy.Kelly@sarasotaFL.gov>
 Cc: Laurie Hall (laurelkhall@gmail.com) <laurelkhall@gmail.com>
 Subject: LPNA Board

The Laurel Park Neighborhood Association Board has voted to endorse the construction of the Ringling Trail, a new project to connect the Legacy Trail to downtown Sarasota and the surrounding neighborhoods.

Yours truly,
Matthew J. Arcari
 VP Branch Manager-Retail Division
 SRQ Branch Northpointe Bank
 1800 Second Street, Ste. 855
 Sarasota, FL 34236
941.780.0429 Direct
888.780.0429 Fax
NMLS - 244710



THE LEGACY TRAIL EXTENSION IN SARASOTA COUNTY WAS COMPLETED IN MARCH 2022.



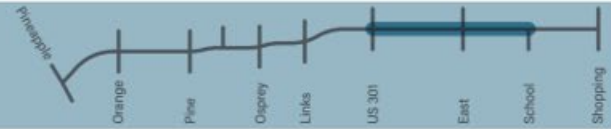
RINGLING TRAIL TYPICAL SECTION

SEGMENT 2

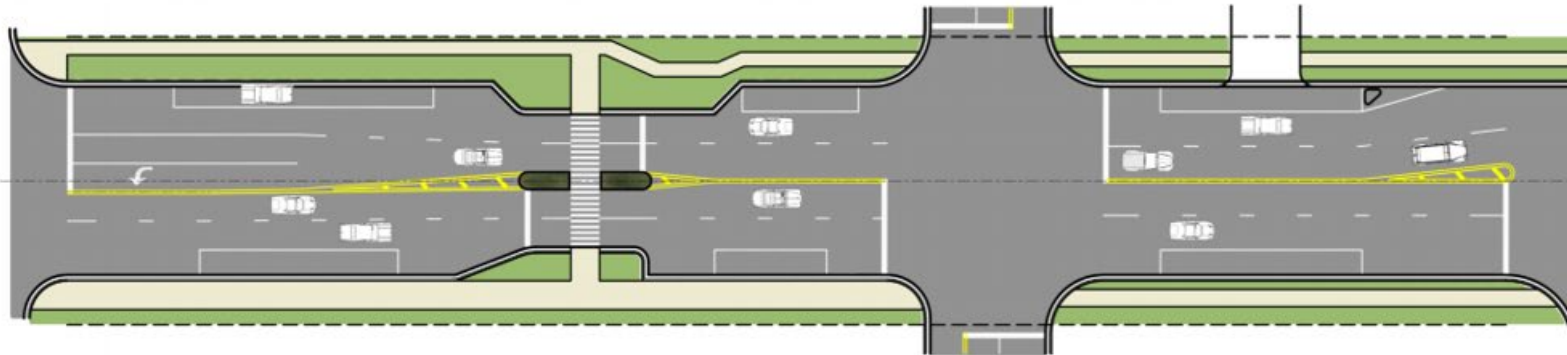
US 301 to School Ave

ROW Width: 100'
 Curb to Curb Width: 68'
 Parking Spaces: 57
 Speed Limit: 25 mph

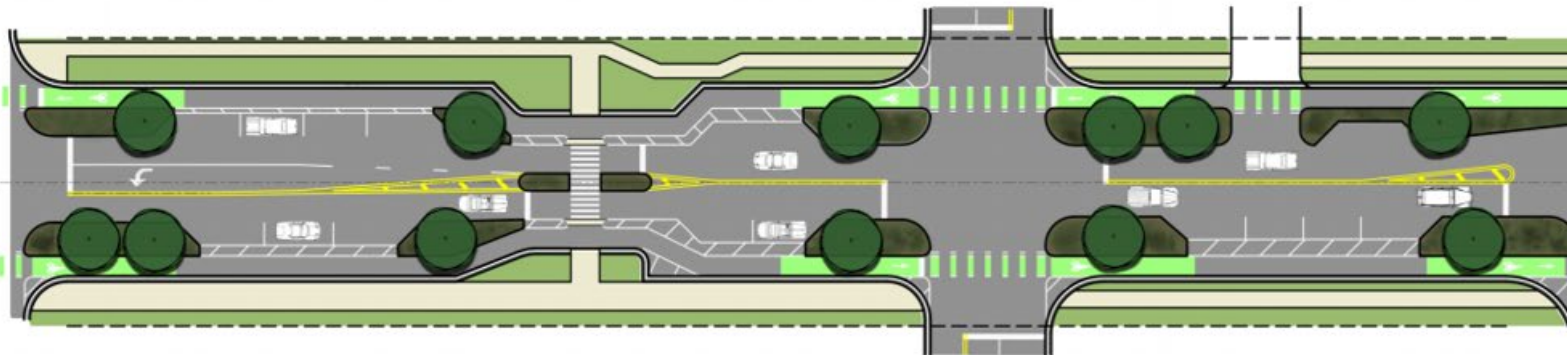
- Characteristics:
- Parallel parking both sides of street
 - Municipal/Law Enforcement buildings adjacent
 - High traffic mid-block pedestrian crossing



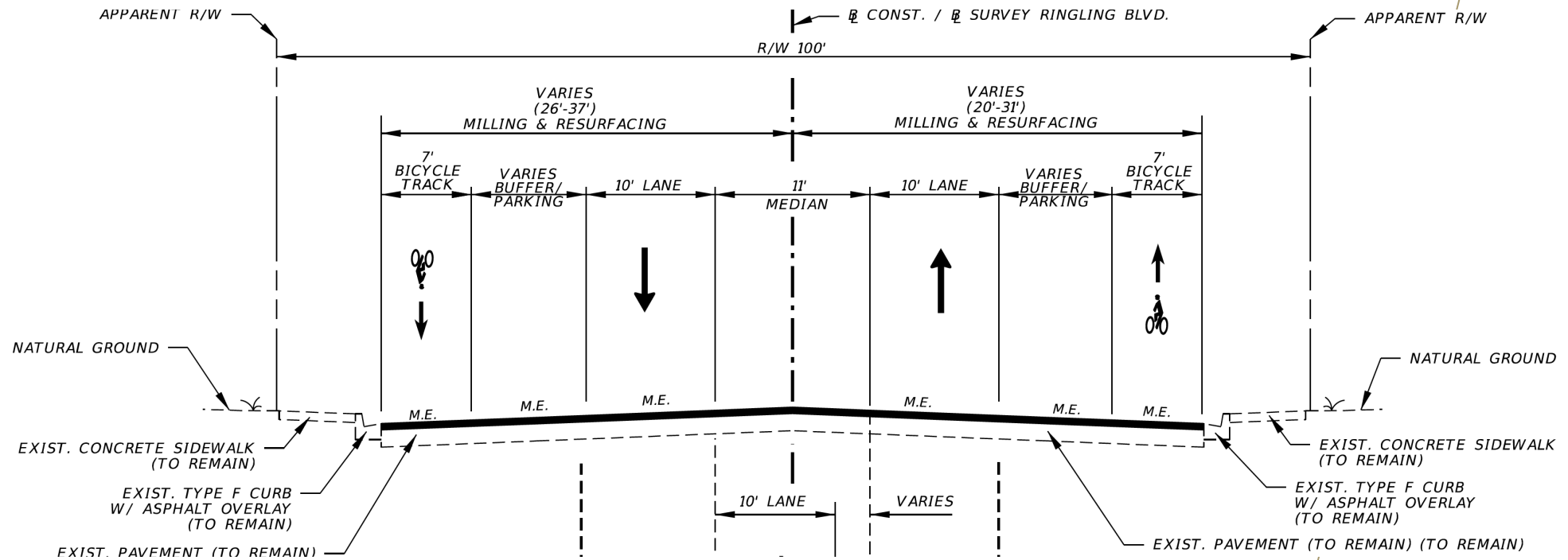
EXISTING CONDITIONS



PROTECTED BIKE LANE



CROSS-SECTION - EAST OF US 301



DESIGN/BUILD

Ajax Paving of Florida, LLC was selected as the contractor

Burgess & Niple Civil Engineering

DWJA Landscape Architecture

Total cost for 1-mile corridor:
\$2,758,477.40.

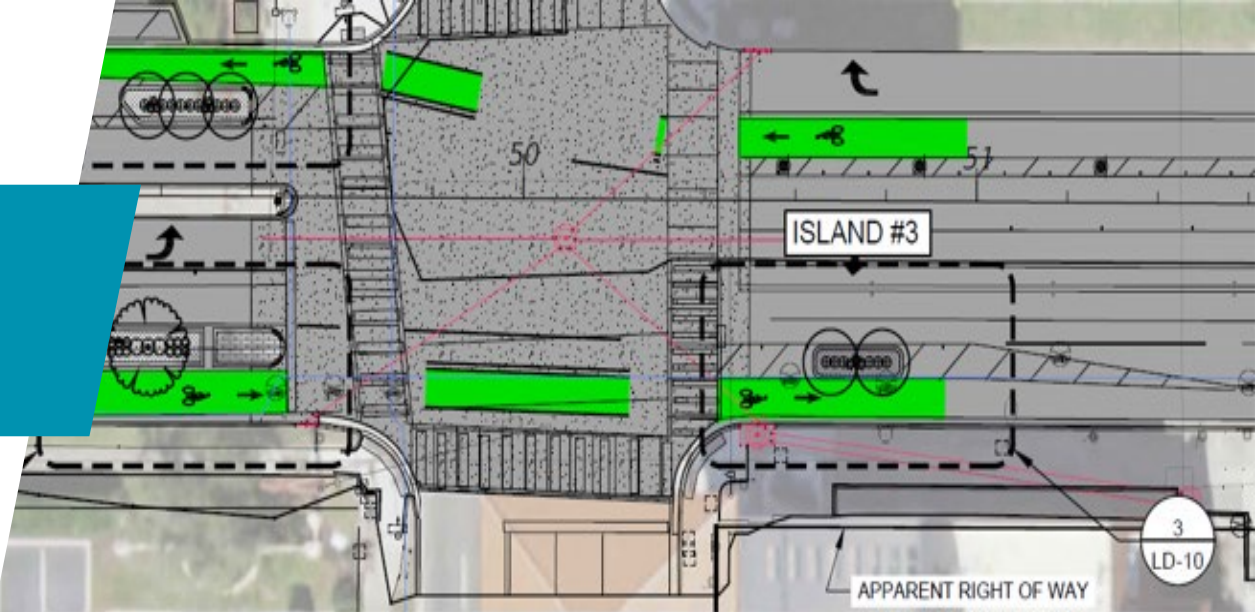
Design

Milling & Resurfacing

Striping, Signage, Marking, & Signals

Landscape Islands & Irrigation

ADA Ramps & Bus Landing Islands



PLANTING SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME
-------	------	-------------------------



dwja

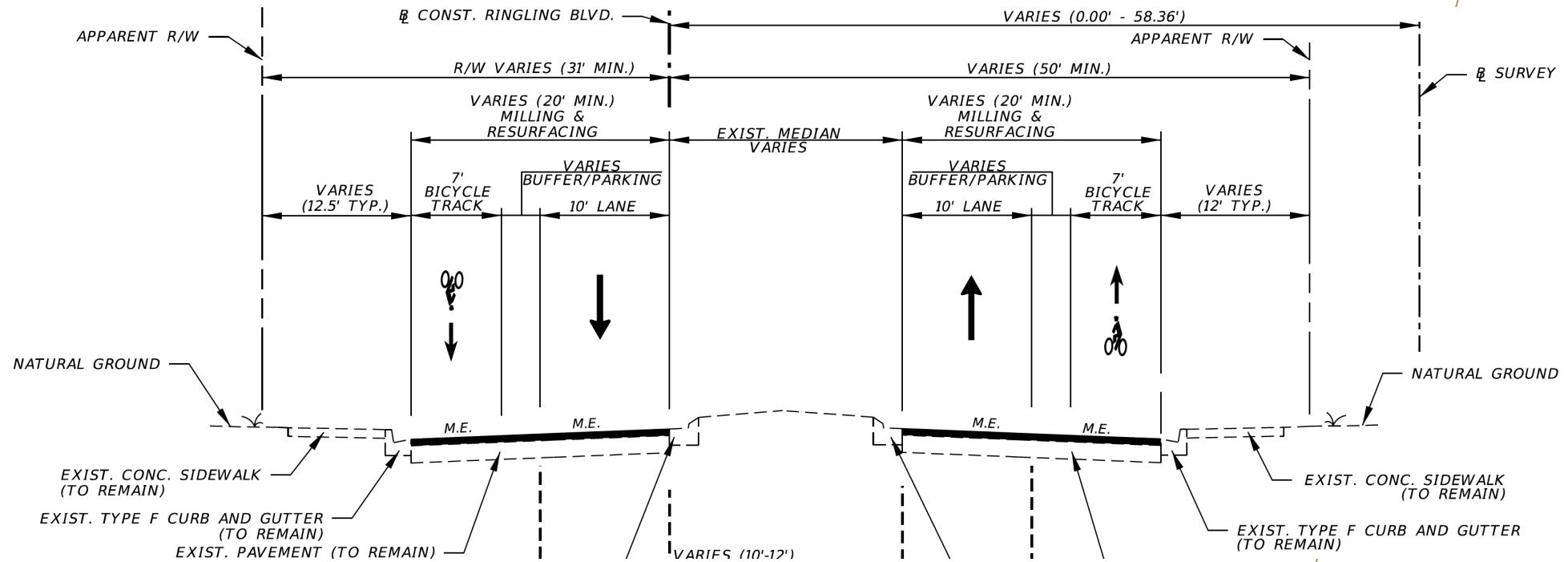
LANDSCAPE ARCHITECTS

**DAVID W. JOHNSTON
ASSOCIATES**

BEFORE & AFTER



CROSS-SECTION - WEST OF US 301



BUS LANDINGS





LANDSCAPE ISLANDS





GREEN PARKING BUMPERS

- ITE and other states utilize parking bumpers
- Low speeds 25 mph or less



BEFORE & AFTER

- Parking Bumper



BIKE RAMPS AT ROUNDBABOUTS



LEGACY TRAIL CONNECTION





RINGLING TRAIL COMPLETE STREETS





CONSTRUCTION

Innovative MOT & Construction
Phasing

Obstacles:

- 2 declared natural disasters
- Unforeseen conditions

Stakeholder Coordination

Communication Outreach





CONSTRUCTION

May 2022 – December 2022

Mill & resurface entire mile

Skipped areas to be redone in the near future

US 301 intersection done at night

Irrigation lines installed by directional bore

Getting-used-to phase for drivers and delivery vehicles

PINE AND RINGLING ROUNDAABOUT

- Invitation to Bid for Construction May 2023
- FDOT Local Agency Program (LAP) Project





CONSTRUCTION

Innovative MOT & Construction
Phasing

Obstacles:

- 2 declared natural disasters
- Unforeseen conditions

Stakeholder Coordination

Communication Outreach



RINGLING TRAIL COMPLETE STREETS RIBBON CUTTING





FRIENDS OF THE LEGACY TRAIL

- HOME
- JOIN, RENEW, OR LOGIN TO MEMBERSHIP
- SQUARE FOOT CAMPAIGN
- TRAIL INFO
- TOUR DE PARKS
- TRAIL NEWS
- TRAIL EXTENSION
- EVENTS
- CONNECTING ROUTES
- NEWSLETTER
- RIDE THE SURREY
- VOLUNTEER
- TRAIL SAFETY
- BUSINESS MEMBERS & SPONSORS
- FLT MERCHANDISE

ARTICLES, TRAIL NEWS

RINGLING TRAIL COMPLETE STREET RECOGNIZED AS PROJECT OF THE YEAR

© APRIL 27, 2023

Sarasota, FL (April 26, 2023): The Ringling Trail Complete Street was recognized as the Project of the Year by the American Public Works Association (APWA) Florida Chapter during its annual conference in Jacksonville last week. Assistant City Engineer Dan Ohrenstein, project team co-lead along with Capital Projects Manager Camden Mills, accepted the award on behalf of the City of Sarasota.

Trail Usage Last 12 Mont
679,319
(Click for)

LEGACY TRAIL MAP (CLICK ON MAP)

RINGLING TRAIL APWA FLORIDA CHAPTER PROJECT OF THE YEAR 2023

RINGLING ROUND 2

SARASOTA/SIESTA KEY

Observer

YOU. YOUR NEIGHBORS. YOUR NEIGHBORHOOD.



The design recently implemented on Ringling Boulevard in Sarasota will be mimicked on Gulf of Mexico Drive.

Coming soon: More beach parking

Parking will be added along the state road's bike lane for the entire 10-mile stretch.

LAUREN TRONSTAD
STAFF WRITER

Gulf of Mexico Drive is slated to look much different than residents have become accustomed to, and it's all to ensure the safety of pedestrians and bicyclists and to attract more tourists.

The new road design will mimic that of Ringling Boulevard in Sarasota, with parking spots acting as buffers between the bicycle lane and moving vehicles.

The new plans will replace previous plans for a multiuse trail along the east side of Gulf of Mexico Drive. "This extra protection is going to mean a lot to those of us that bike along Gulf of Mexico Drive regularly," resident Daisy Spins said. "No one drives the speed limit, and I'm often in fear of getting flattened."

Spins is among the dozens who use the bike lanes along the main road through the island as a source of exercise.

"I am surely not going to try pickleball," she said. "There is nowhere to park (at Bayfront Park), and biking is more of an independent activity, which I prefer."

Although such a change is seen to benefit groups that are most vulnerable on GMD, as with any issue, there are quite a few people upset about the choice.

"The town isn't thinking about everyday drivers on this road and their safety," resident Bob Fields said. "Not only is this going to be an unsightly addition, but if cyclists don't fear for their lives, more people will come to the island. And no one wants that."

The addition of parking spots beside the bike lane for the entire 10-mile stretch of the barrier island will widen the road about 12 feet and create the need for a new sidewalk. Plans for the new sidewalk include sections of moving walkways, similar

to those found in major airports, in order to further improve accessibility for off-island tourists interested in more leisurely walking trails.

Typically, beach parking is hard to come by on Longboat Key unless you live on the island or are staying at a vacation home.

"It might increase the amount of people that come out to these beautiful beaches," said tourist Sandy Shores. "But even if visitation reaches the point of Siesta Key or Coquina Beach, I'm looking forward to having an easier time finding parking for the beach or anything else that brings me to the island."

The town views the design change as a way to increase annual tourism revenue, which could be put back into maintaining the beaches.

"The town is trying to turn away from the image of being anti-tourist," town public information officer Ashley Info said. "These additional parking spaces will not only draw visitors to our beaches but will also protect residents who enjoy spending their time walking and biking along Gulf of Mexico Drive."

Design is still in the early stages, but the expectation is the project will exceed the cost of the 12-foot multi-use trail previously planned for the state road.

Resident Seymour Miles, who presented the idea to town staff, has pledged to pay at least half of the cost of construction if the plans are approved. Such a project is likely to cost around \$100 million, including materials, labor, equipment and lobster-roll lunches for work crews, according to Roadbotics.

No timeline has been provided for when work will start or be completed. It first will have to go before the commission several times for various approvals.

No timeline has been provided for when work will start or be completed.

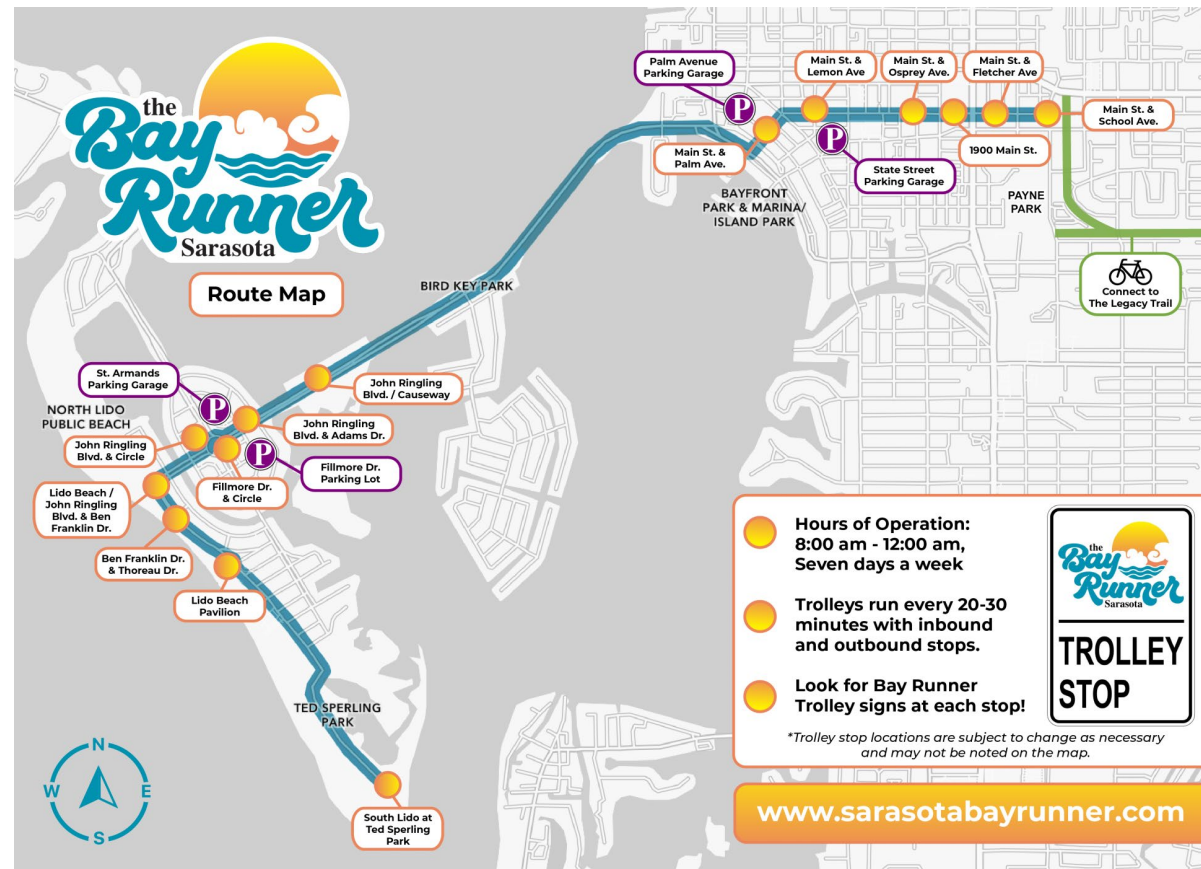
An aerial photograph of a coastal city, likely Miami, featuring a large marina filled with yachts, several high-rise apartment buildings, and a winding road with palm trees. The water is a light blue-green color. A semi-transparent blue rectangle is overlaid in the center of the image, containing the text 'Completed Projects' in white.

Completed Projects

BAY RUNNER TROLLEY



- 13 Months in Service
- Over 150,800 passengers in first 12 months



BEN FRANKLIN SOLAR LIGHTING

- ST Series Solar Street Lights
- 1.6 miles of Sea Turtle Nesting Zone



BEN FRANKLIN SOLAR LIGHTING

- ST Series Solar Street Lights
- 1.6 miles of Sea Turtle Nesting Zone



THE BAY RUNNER

The Bay Runner is a free trolley service connecting the best Sarasota keys and Downtown for an ultimate outdoor Florida experience. The goal of the Bay Runner is to provide an enjoyable experience that reduces travel time, congestion and makes getting around easier for visitors, residents, and employees.

13 Months in Service

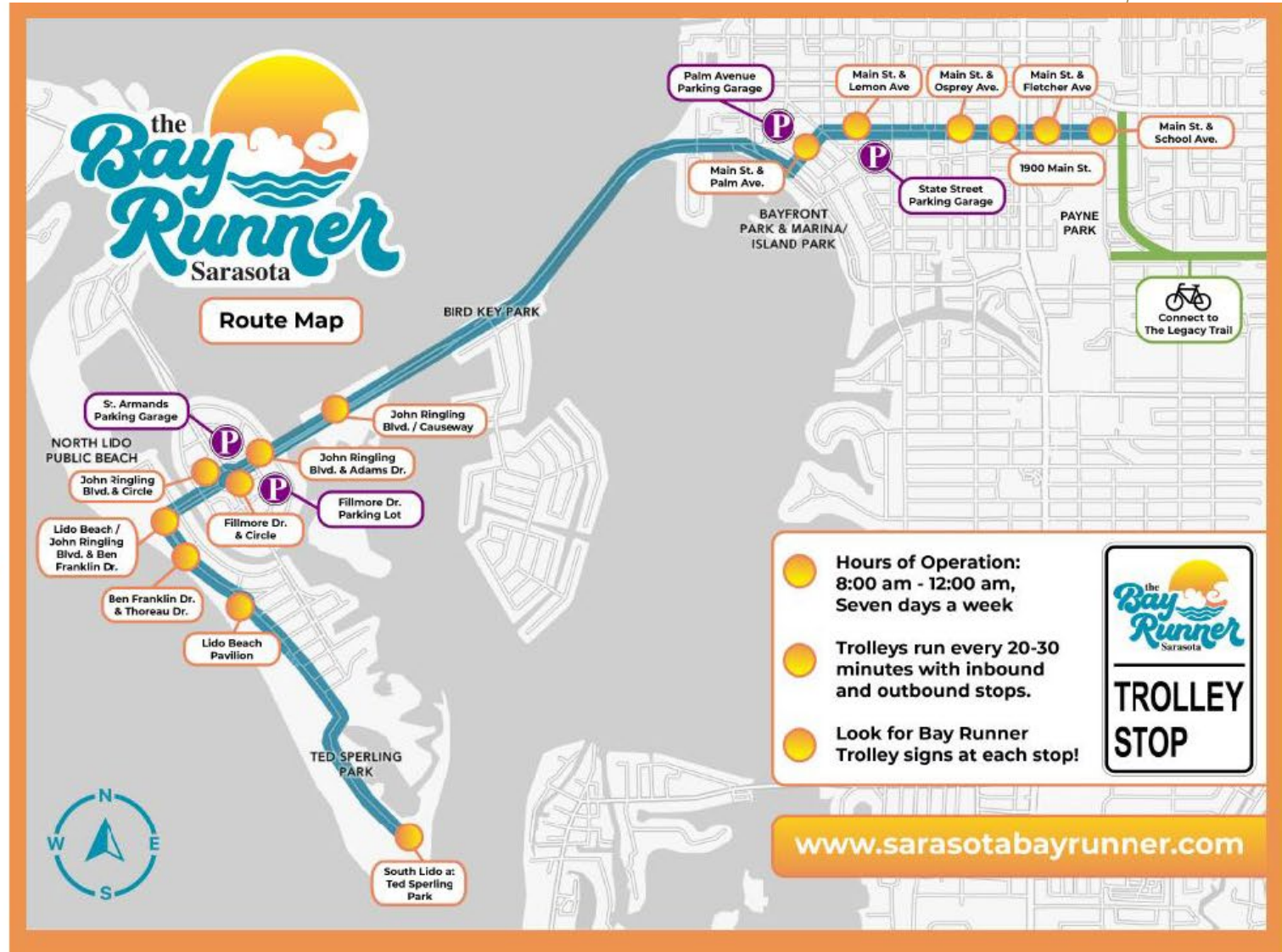
Over 150,000 Rides

2021 **IPMI**
AWARDS OF EXCELLENCE



Bay Runner

- Started service: March 2022
- 8:00 AM – midnight, 7 days/week
- Operating as a circulator –
 - No timed stops
 - Average headway: 30 min



VEO MICROMOBILITY

- 13 Months in Service
- Over 150,000 Rides
- 150 new vehicles, total fleet of 550 vehicles



SIDE WALK CAFÉS

- 85 permitted sidewalk cafés in Sarasota for 2022
- Updated ordinance



PARKLETS

- 11 permitted parklets in downtown Sarasota for 2022
- 21 parking spaces are being utilized
- Each parking space costs \$25/day

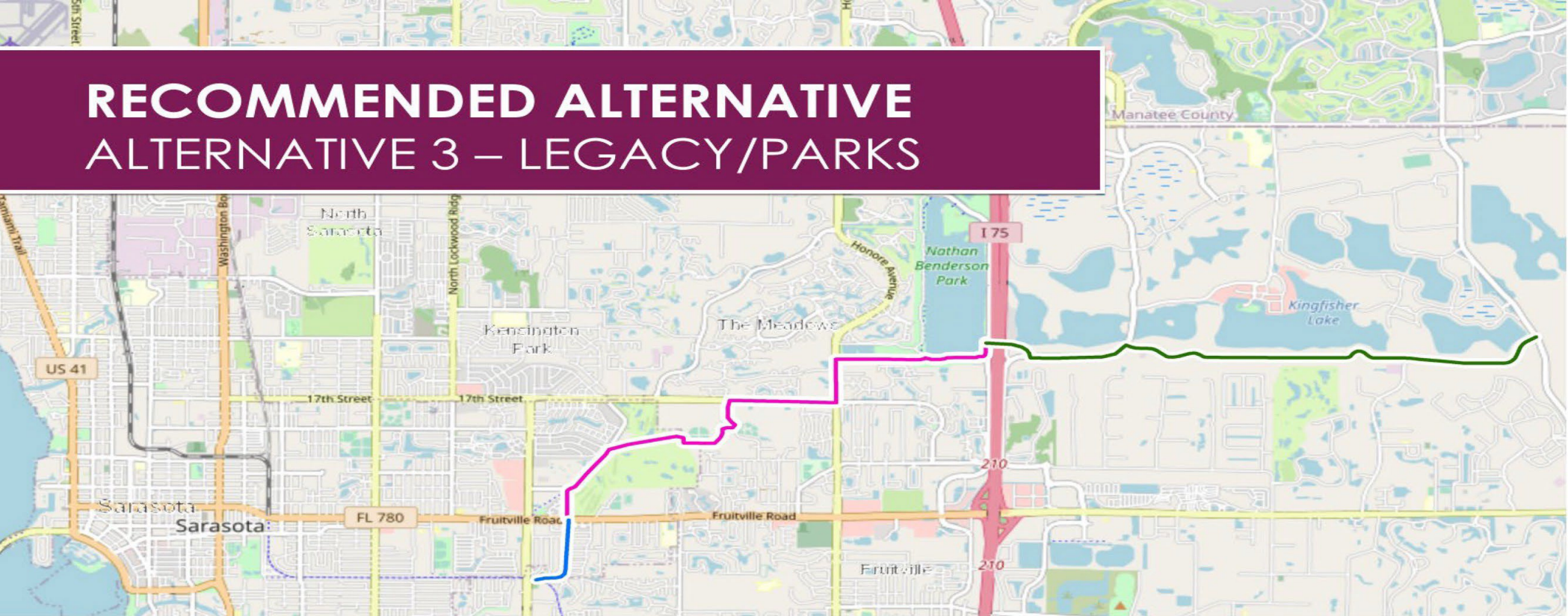


An aerial photograph of a coastal city, likely Dubai, featuring a large marina filled with yachts, numerous high-rise apartment buildings, and a winding road with palm trees along the waterfront. The sky is clear and blue.

Upcoming Projects

2023 Onwards

SARASOTA SUN TRAIL ALIGNMENT



BOBBY JONES GOLF COURSE AND NATURE PARK

- 261-Acre Conservation Nature Park
- Conservation Easement (Conservation Foundation Fundraising Agreement)

Bobby Jones
Golf Club

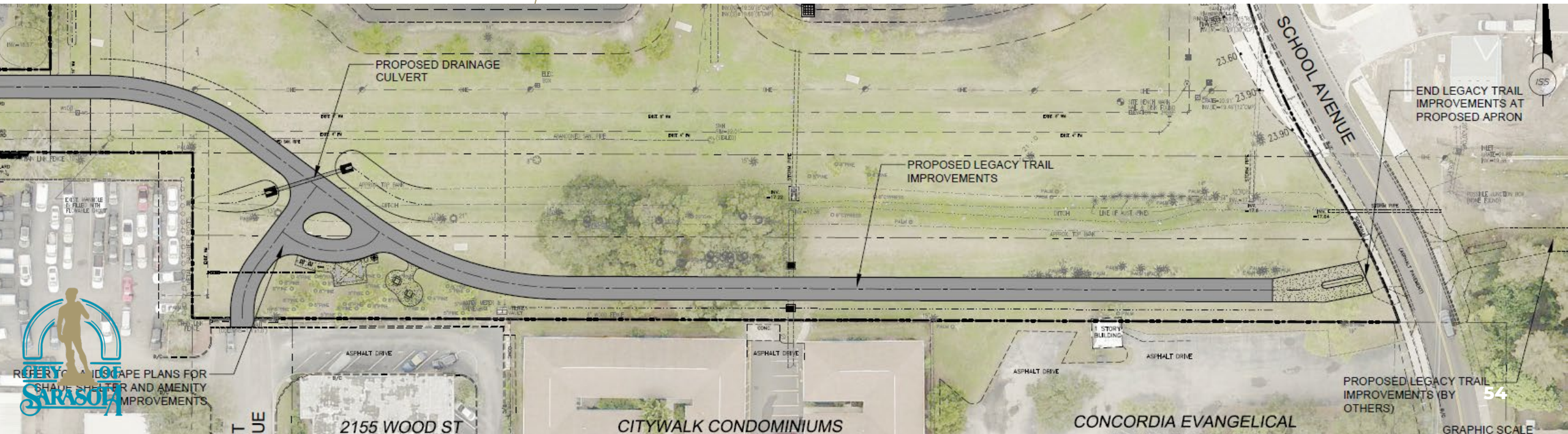


MASTER PLAN
February 8, 2021



THE LEGACY TRAIL – ALDERMAN MURT

- Construct multi-use path that extends The Legacy Trail through S Payne Park to connect to East Ave and Alderman St.
- FDEP Recreational Trails Program grant candidate



BOULEVARD OF THE ARTS STREETSCAPE

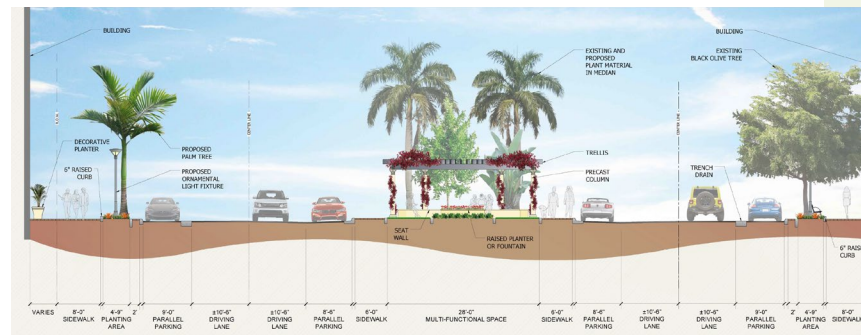
- 30% Design
- Pedestrian improvements
- Undergrounding Utilities
- Modify Stormwater



EXISTING CONDITIONS

ST. ARMANDS COMPLETE STREETS

- Project Evaluation underway
- Community Input underway



Engineering Design Criteria Manual Update

PROJECT SCHEDULE

Public Meeting 1
Issues & Opportunities
November 2022



Public Meetings 2
Potential Changes
May 2023



Public Meeting 3
Draft EDCM
August 2023



**Public Hearing & City
Commission
Meetings**

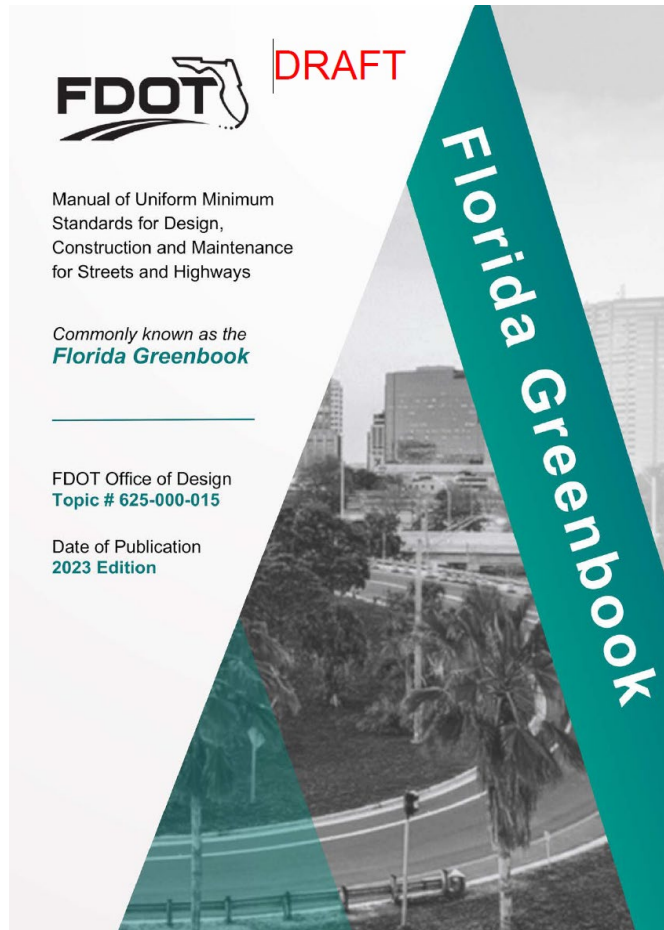
September & October 2023



2022

2023

FLORIDA GREENBOOK



DRAFT

Topic # 625-000-015
Manual of Uniform Minimum Standards
for Design, Construction and Maintenance
for Streets and Highways

2023~~2018~~

CHAPTER 1

PLANNING AND LAND DEVELOPMENT

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**Public Hearing & City
Commission
Meetings**

September & October 2023



2022

2023

ENGINEERING FLORIDA



Market Spotlight

Sarasota

RESILIENT INFRASTRUCTURE INVESTMENTS PAY OFF

BY NIKESH PATEL
PE, CPM, PTOE, CGC, AICP
City Engineer, City of Sarasota

According to the U.S. Census Bureau's Vintage 2022, Florida is the fastest-growing state in the nation. The Florida Office of Economic and Demographic Research predicts Sarasota County alone will see a 27-percent increase in population by 2045.

Investing in sustainable, resilient infrastructure is essential to protect Sarasota's growing population from natural disasters. The City of Sarasota is proactively achieving resiliency by safeguarding Florida's natural resources and infrastructure. Through multimillion-dollar projects and strategic partnerships, the city is leveraging innovative technology to improve quality of life.

STRENGTHENING SHORELINES
Fortunately, Lido Beach suffered no significant erosion when Hurricanes Ian and Nicole passed through Florida, a testament to the efficacy of the City's partnership with the U.S. Army Corps (USACE) of Engineers and the Florida Department of Environmental Protection (FDEP) for the recent renourishment project on Lido Beach.

The \$12.9 million endeavor dredged Big Pass and pumped roughly 700,000 cubic yards of sand onto a 1.56-mile stretch of Lido Key, extending the beach's width by an average of about 300 feet. Two groins of nearly 5,000 tons of armor stone have also been installed along south Lido Beach to reduce erosion effects further.

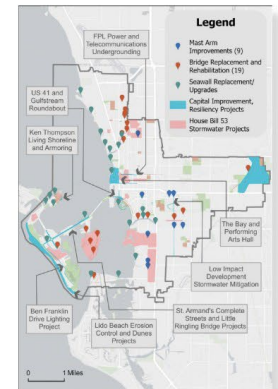
*LIDO BEACH
SARASOTA, FL
Photos courtesy of the city of Sarasota*

The City will continue reinforcing Lido Beach by partnering with the FDEP and Sarasota County to construct a vegetated dune. The primary goal of this project is to buffer potential flooding impacts on Benjamin Franklin Drive, upland private property and critical infrastructure. Other benefits include reducing the effects of wave run-up, enhancing the coastal ecosystem, improving storm protection, reducing wind speed, and retaining sand volume. Construction will begin this spring.

On Lido Key, Ken Thompson Park requires a different approach. Years of coastal erosion caused by sea level rise and storms have reduced the shoreline. The City will minimize erosion by overlaying mangroves, grasses, and oyster beds to form a "living shoreline." This approach outperforms traditional seawalls by restoring the ecosystem for native species, resulting in a biodiverse environment that improves water quality.

Sarasota's first live seawall arrived in 2018 along Bayfront Park. The first phase installed 250 feet of "Eco-Rap" modules, creating an artificial concrete reef attractive to marine life. Another 1,500 feet of seawall will be rehabilitated at Bayfront Park thanks to the new Resilient Florida Grant Program. Over \$275 million will be awarded through FDEP, with the City receiving \$2.5 million with a City match of a project cost of over \$5 million for the Sarasota Bay resiliency projects.

The Bay Park Conservancy has also deployed living shorelines, a partnership project to implement a long-term master plan for 53 acres of city-owned land along Sarasota Bay. This park establishes the region's cultural and economic legacy by prioritizing sustainability and resiliency in its master plan.



CITY OF SARASOTA IMPROVEMENTS MAP

Gov. Ron DeSantis awarded over \$10.4 million to the City of Sarasota to enhance water quality and protect it from erosion, storms, and flooding in Bay Park.

Phase one of construction restored wetlands and enlivened the park's landscaping. Bioswales were created to filter runoff and rainwater into native root systems and drainage infrastructure for treatment before reaching the bay. Bank stabilization and erosion control were achieved by strategically placed rock revetment walls, living shorelines, vegetated flood barriers and retaining walls.





QUESTIONS

THANK YOU

Nikesh Patel

Nikesh.Patel@SarasotaFL.gov



Images courtesy of www.VisitSarasota.com