

SR 518 Conceptual Design Study Project Visioning Team Meeting #2

March 20, 2018



Agenda

- Introductions
- Project Status
- Design Issues
 - Follow-up from PVT #1
 - Transit
 - Right Turn Lanes
 - Drainage
- Next Steps



Florida Department of Transportation
719 S. Woodland Boulevard
DeLand, Florida 32720-6834

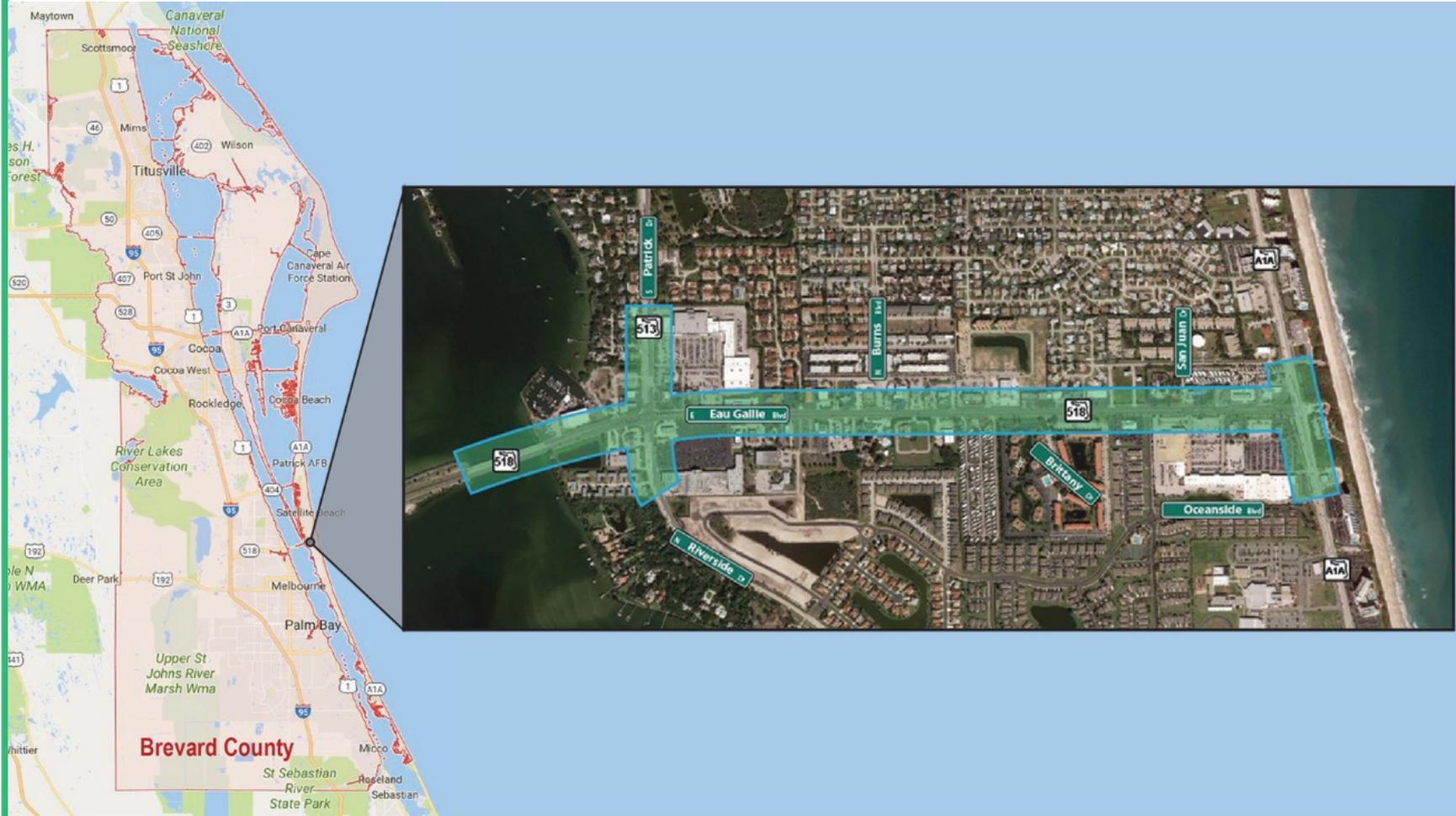
RICK SCOTT
GOVERNOR

MIKE DEW
SECRETARY

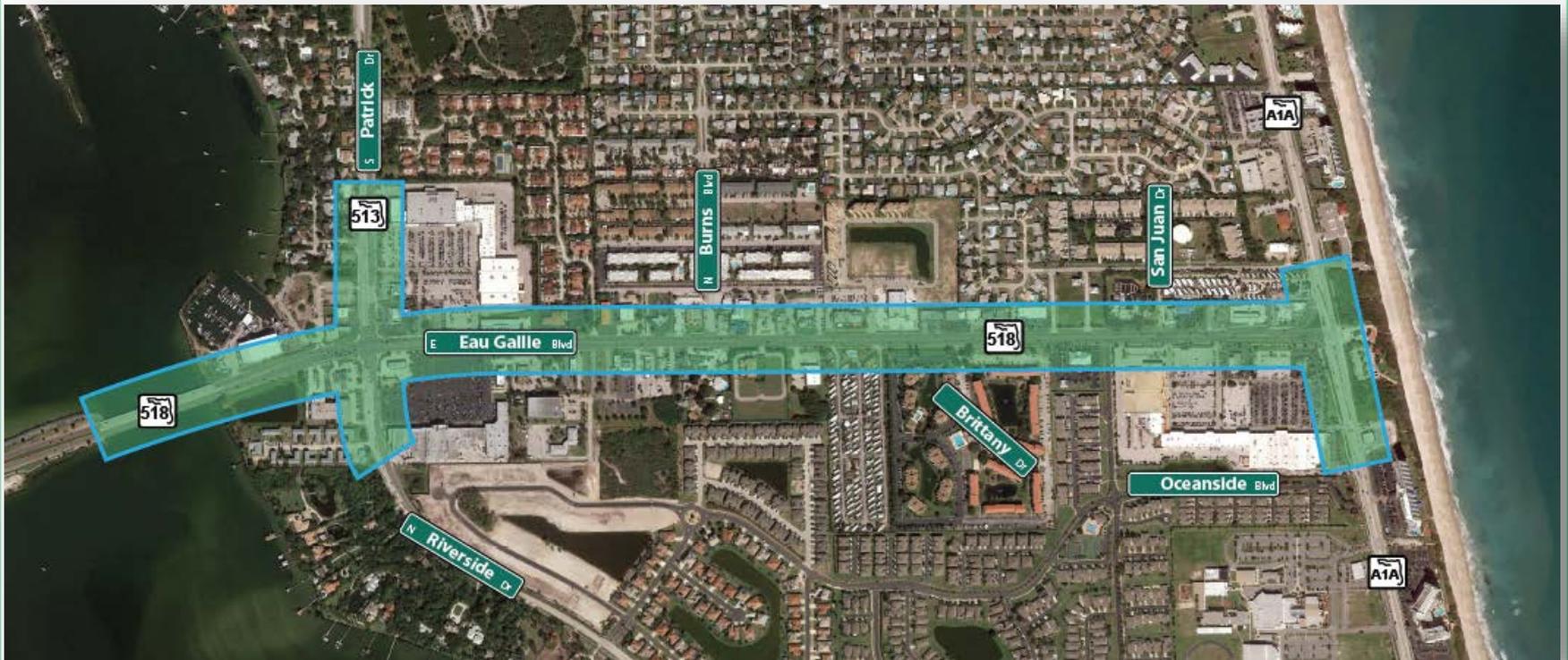
AGENDA
SR 518 Project Visioning Team #2
March 20, 2018

1. Introductions
2. Project Status
 - a. Concept Plans
 - b. Meetings with FDOT
 - i. Roadway Design
 - ii. Traffic Operations
 - iii. Drainage
3. Design Issues Discussed at PVT #1
 - a. Pedestrian Crossings
 - i. Vicinity of Burns Blvd.
 - ii. Transit Stops
 - iii. SR A1A
 - iv. Relief Bridge
 - b. Publix Driveway
 - i. Traffic Volume
 - ii. Access Management
4. Transit
 - a. Boarding/Alighting Pads
 - b. Modification to Transit Stop Locations
5. Existing Right Turn Lanes
 - a. Permitted
 - b. Impacts to Existing Drainage
6. Drainage
 - a. Three Existing Exfiltration Systems
 - b. Pond West of SR 513 for Intersection
 - c. Potential Drainage Concepts
7. Next Steps
 - a. FDOT Management Meet
 - b. Public Meeting
 - c. Documentation
 - d. Submit for Scoping
8. Adjourn

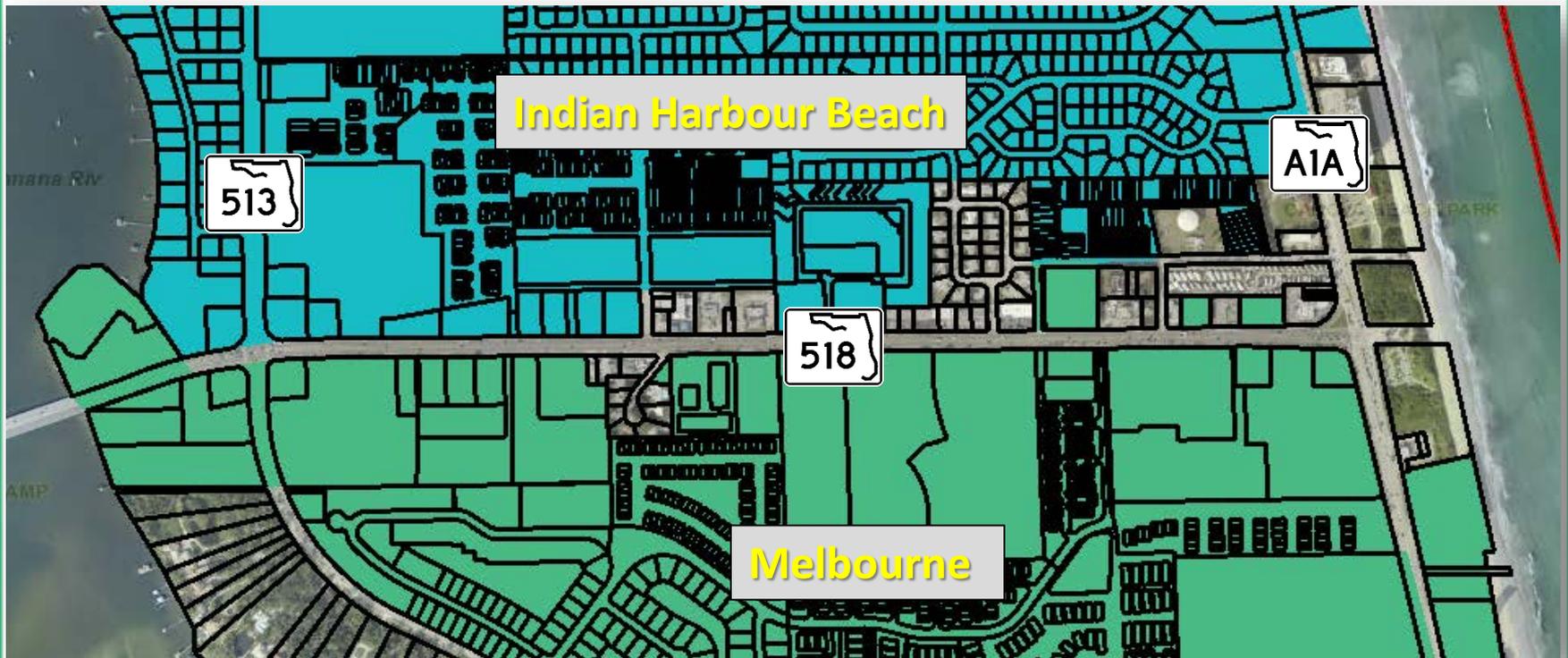
Project Location



Project Limits



Municipal Boundaries



Planning Phase

- Three Priority Groups
- I – Bike Lanes, Sidewalks, SR A1A Intersection
- II – Relief Bridge, Access Management, SR 513 Intersection
- III – Roundabouts, Median

Table 1: Summary of Improvement Potential Improvements

Priority Group	#	Description	Location	Agency Lead	Potential Phases Needed
I	1.a	Sidewalks - North Side	South Patrick Drive to SR A1A	To Be Determined	Concept Development / Design / Construction
	1.b	Crosswalk with audible beacon	Winn-Dixie Intersection, east side	To Be Determined	Design / Construction (after sidewalk is in place)
	2	Bike Lanes	Relief Bridge to SR A1A	To Be Determined	Implement during resurfacing
	3	SR A1A Intersection - remove continuous right turn lanes, extend median	Eau Gallie Boulevard at SR A1A. Median changes along Eau Gallie	To Be Determined	Concept Development / Design / Construction
II	4a	Bridge sidewalk and connection of bike lanes	Relief Bridge to SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
	4b	SR 513 / South Patrick Drive Intersection - repurpose westbound lanes (1 left, 2 through, 1 right)	Intersection of Eau Gallie Boulevard and SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
	5	Driveway and median modifications	Publix / Bealls Shopping Center driveways on Eau Gallie	To Be Determined	Concept Development / Design / Construction
III	6	Roundabouts and median	Burns Boulevard to Winn-Dixie driveway	To Be Determined	Gain support then Concept Development / Design / Right-of-way / Construction

Concept Design Activities

- Coordination with FDOT Roadway, Traffic Operations and Drainage
- PVT#1 Follow-up
 - Priority Groups 1 and 2
- Transit
- Right Turn Lanes
- Drainage

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PVT #1 Follow-up

- Pedestrian Crossings/Facilities
 - Continuous sidewalk
 - Mid-Block Crossings
 - Burns Boulevard
 - Transit Stops
 - SR A1A
 - Relief Bridge

SR 518/Eau Gallie Beachside Concept Development Study Project Visioning Team Meeting #1				
Name	Agency	Address	Phone #	Email
Devin Swanson	B.C. Traffic Dept	2725 Judge Frank Jamieson Way	633-2077	devin.swanson@bcgov.ca
David Butler	IHS PD		773-3030	DButler@ihs.ca

SR 518/Eau Gallie Beachside Concept Development Study Project Visioning Team Meeting #1				
Name	Agency	Address	Phone #	Email
Tracy Sandoz	INNOV HSE Buss	2055 South American Dr, Titus, FL 32547	321-772-2181	tsandoz@innovhse.com
Laura Carter	SCITPO	2735 Judge Frank Jamieson Way, Melbourne FL 32940	321-690-6890	laura.carter@bcgov.ca
Rachelle Banken	British public school	2300 Judge Frank Jamieson Way, Melbourne FL 32940	321-675-7750	laura.carter@bcgov.ca
Janna Taylor	FDOT	741 S Woodland Blvd, Deland, FL 32720	386-943-5120	Janna.Taylor@dot.state.fl.us
Liam Smith	SCITPO	2725 Judge Frank Jamieson Way 32940	321-690-6810	liam.smith@bcgov.ca
Abby Rex	SCITPO	2725 Judge Frank Jamieson Way 32940	321-690-6810	abby.rex@bcgov.ca
Tami Guelon	City of Melbourne	910 E. Strawbridge Ave, Melbourne, FL 32901	321-200-7511	tamiguelon@melbourne.ca
Mark Ryan	Indian Harbour City	2055 S. Patrick Dr, IHS 32937	321-773-3151	mark.ryan@ihs.ca
Todd Corwin	Melbourne	900 E. Strawbridge Ave, Melbourne 32901	321-690-7306	todd.corwin@melbourne.ca

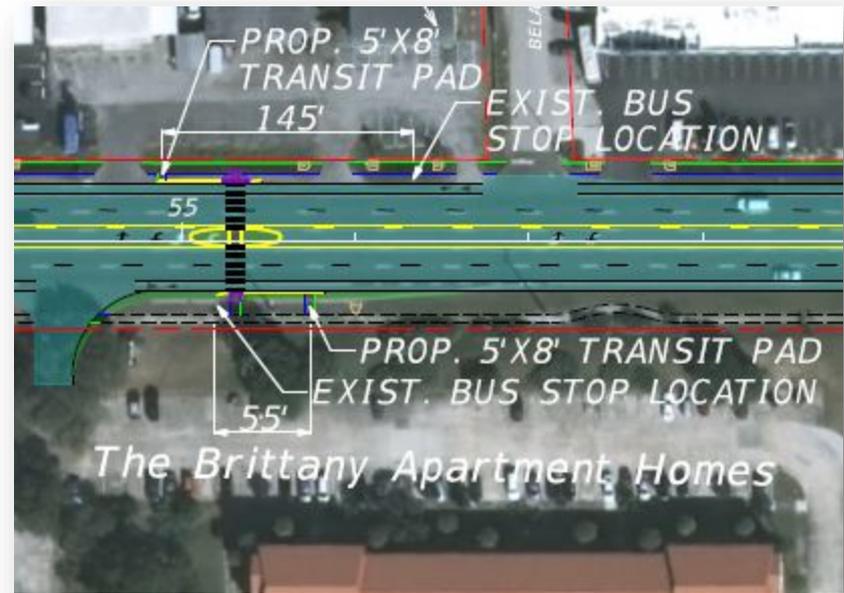
Sidewalk

- North and south side of SR 518
- Connect to existing
- Impacts to drainage



Mid-Block Crossings

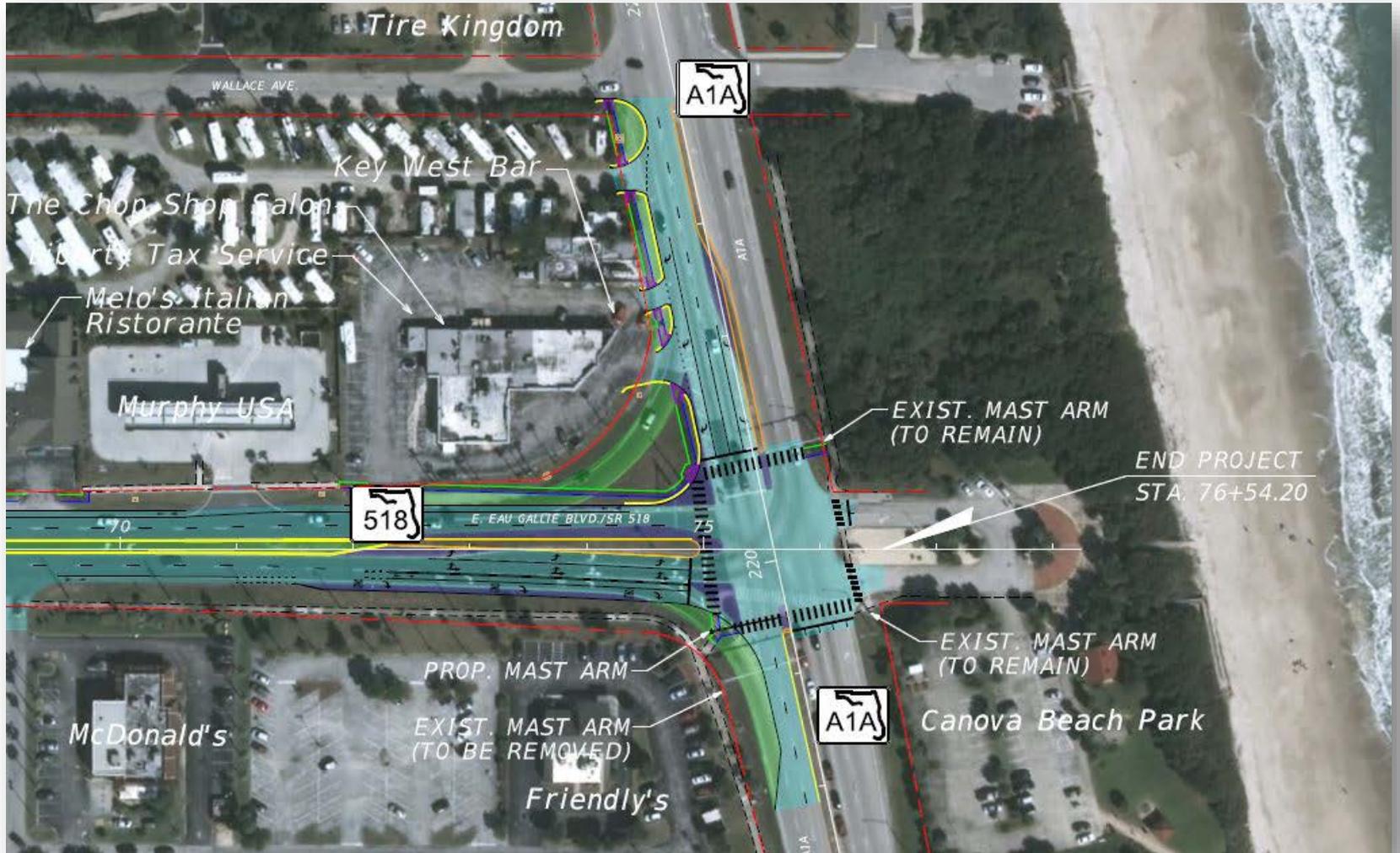
- Locations
 - Near Burns Boulevard
 - Transit Stops
- Visibility
 - RRFB's not approved for use
 - Other options to be available



SR A1A Intersection

- Removal of Free-flow Right Turns
 - Accommodates pedestrian crossing
- Remove weave condition on SB SR A1A
- Extend median on SR 518 to the west
 - No conflicts with queuing traffic

SR A1A Intersection



Indian River Relief Bridge

- Barrier separated pedestrian accommodations on south side
- Safe crossing from north to south at SR 513
- Safe protected route to Eau Gallie Causeway Boat Ramp and Indian River Bridge fishing pier
- Maintain existing conditions at relief bridge
 - Discussions with FDOT Design and Traffic Operations
 - No safe crossing north to south across SR 518 west of SR 513

Transit

- Locations of Transit Stops
 - Potential minor relocation
- Boarding/Alighting Pads



Right Turn Lanes

- All Permitted
- Impacts to Existing Drainage



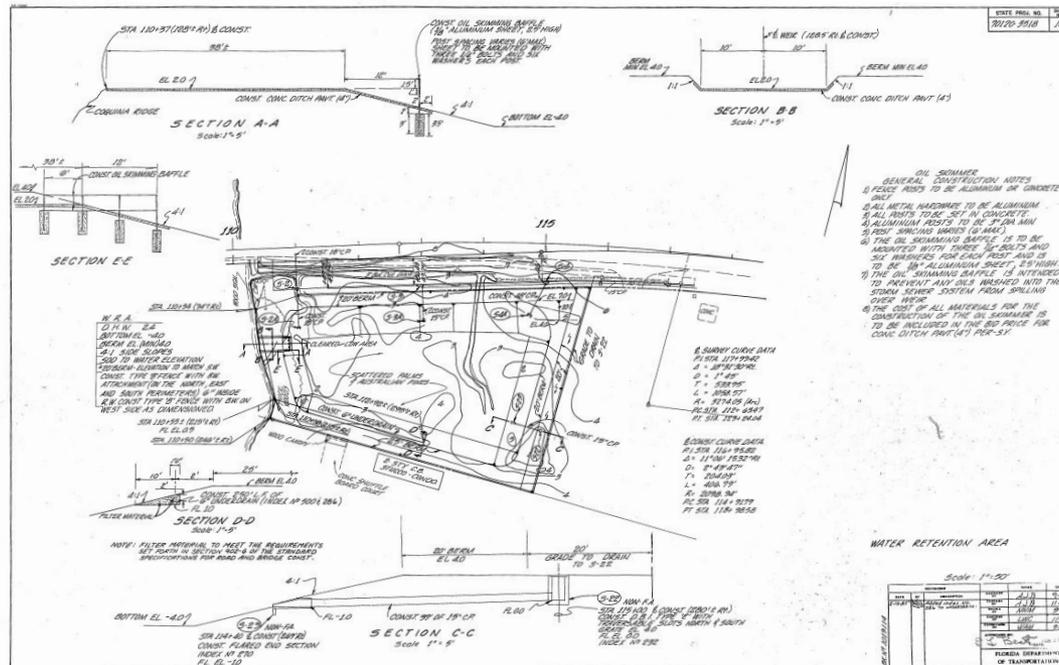
Drainage

- Existing System
 - Exfiltration
 - Pond west of SR 513
- Potential Drainage Concepts



Existing Drainage System

- Stormwater Ponds
 - Large pond south of SR 518, west of SR 513
 - Two smaller ponds north and south of SR 518
 - Built as part of 1984 intersection improvements



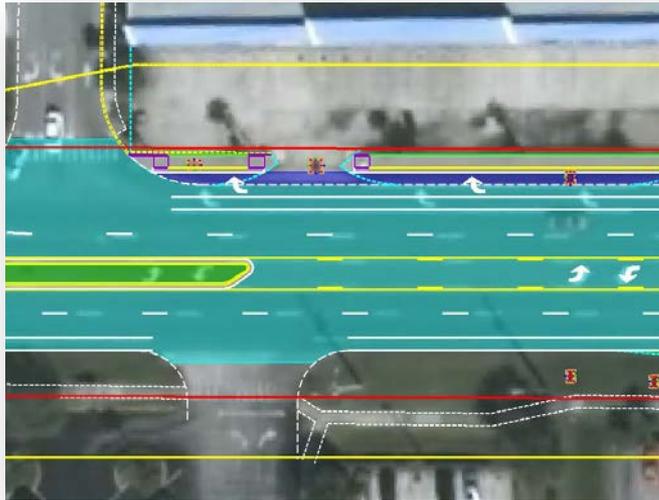
Existing Drainage System

- Exfiltration
 - Up to three existing systems east of SR 513
 - Conveyed through ditches on each side of SR 518



Potential Drainage Concepts

- Additional Impervious Areas
 - Sidewalk to north
 - Bicycle Keyholes at Right Turn Lanes
 - Reduces/Eliminates conveyance swales



Potential Drainage Concepts

- Closed drainage system (curb/gutter/inlet) where swale not feasible
 - Swale not feasible when $< 8'-10'$ minimum exists
 - New sidewalk
 - Widening at right turn lanes



Potential Drainage Concepts

- Exfiltration
 - Not a preferred option
 - Difficult to maintain
 - Existing flooding



Potential Drainage Concepts

- Stormsewer
 - Construction of trunk line
 - Pond treatment
 - Connect to Existing Pond
 - Impacts to Utilities
 - SR 513 Intersection
 - New Ponds
 - Requires ROW,
potential relocations



Next Steps

- Cost Estimates
- Public Meeting
- Refine Alternatives
- Documentation
- PD&E or Final Design



Next Steps

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- Public Meeting
- Refine Alternatives
- Documentation
- **PD&E or Final Design**



Suggestions for Further Study

- Median Treatments
- Access Management
- Right of Way Acquisition
- Reconstruction



What is the Ultimate Vision for Eau Gallie Beachside?



Questions & Discussion

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