

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WATER QUALITY IMPACT EVALUATION CHECKLIST

650-050-37
ENVIRONMENTAL
MANAGEMENT
07/20

PART 1: PROJECT INFORMATION

Project Name:	SR 659 (Combee Road) PD&E from US 98 to North Crystal Lake Drive
County:	Polk
FM Number:	440274-1-22-01
Federal Aid Project No:	D117-089-B
Brief Project Description:	This PD&E includes evaluating alternatives for proposed safety improvements for Combee Road from US 98 to North Crystal Lake Drive

PART 2: DETERMINATION OF WQIE SCOPE

Does project discharge to surface or ground water? Yes No

Does project alter the drainage system? Yes No

Is the project located within a permitted MS4? Yes No
Name: Polk County MS4

If the answers to the questions above are no, complete the applicable sections of Part 3 and 4, and then check Box A in Part 5.

PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS

Surface Water

Receiving water names: Crystal Lake

Water Management District: Southwest Florida Water Management District

Environmental Look Around meeting date: 2/19/2019

Attach meeting minutes/notes to the checklist.

Water Control District Name(s) (list all that apply): _____

Groundwater

Sole Source Aquifer (SSA)? Yes No

Name _____

If yes, complete Part 5, D and complete SSA Checklist shown in Part 2, Chapter 11 of the PD&E Manual

Other Aquifer? Yes No

Name Floridan Aquifer

Springs vents? Yes No

Name _____

Well head protection area? Yes No

Name _____
Groundwater recharge? Yes No
Name _____

Notify District Drainage Engineer if karst conditions are expected or if a higher level of treatment may be needed due to a project being located within a WBID verified as Impaired in accordance with Chapter 62-303, F.A.C.

Date of notification: [Click here to enter a date.](#)

PART 4: WATER QUALITY CRITERIA

List all WBIDs and all parameters for which a WBID has been verified impaired, or has a TMDL in [Table 1](#). This information should be updated during each re-evaluation as required.

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed. Attach notes or minutes from all coordination meetings identified in [Table 2](#).

EST recommendations confirmed with agencies? Yes No

BMAP Stakeholders contacted? Yes No

TMDL program contacted? Yes No

RAP Stakeholders contacted? Yes No

Regional water quality projects identified in the ELA? Yes No

If yes, describe: ELA identifies use of Polk County pond at Crystal Lake

Potential direct effects associated with project construction and/or operation identified? Yes No

If yes, describe:

The proposed improvements add relatively little additional pavement to the existing roadway. Currently there is no treatment for stormwater runoff leaving Combee Road and entering Crystal Lake. The addition of a curb and gutter system and proposed stormwater ponds will treat the runoff providing an overall enhancement of the water quality. To ensure there are no secondary/indirect impacts, Best Management Practices will be employed during construction to minimize potential runoff and stormwater management will be designed and implemented as required by state regulations

Discuss any other relevant information related to water quality including Regulatory Agency Water Quality Requirements.

Proposed stormwater management facilities have been discussed and coordination is ongoing with FDOT, Polk County and City of Lakeland. The facilities are proposed to not only collect and treat stormwater but also may improve the water quality of Crystal Lake

PART 5: WQIE DOCUMENTATION

- A. No involvement with water quality
- B. No water quality regulatory requirements apply.
- C. Water quality regulatory requirements apply to this project (provide Evaluator's information below). Water quality and stormwater issues will be mitigated through compliance with the design requirements of authorized regulatory agencies.
- D. EPA Ground/Drinking Water Branch review required. Yes No
Concurrence received? Yes No
If Yes, Date of EPA Concurrence: [Click here to enter a date..](#)
Attach the concurrence letter

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.

Evaluator Name (print): Tori Bacheler

Title: Environmental Scientist

Signature: *Tori Bacheler*

Date: 3/17/2021

Table 1: Water Quality Criteria

Receiving Waterbody Name (list all that apply)	FDEP Group Number / Name	WBID(s) Numbers	Classification (I,II,III,IIIL,IV,V)	Special Designations*	NNC limits**	Verified Impaired (Y/N)	TMDL (Y/N)	Pollutants of concern	BMAP, RA Plan or SSAC
Crystal Lake	3/Sarasota Bay-Peace Myakka	1497A	III	MS4	Lake	Yes	Yes	Dissolved Oxygen, Unionized Ammonia, Nutrients	No

* ONRW, OFW, Aquatic Preserve, Wild and Scenic River, Special Water, SWIM Area, Local Comp Plan, MS4 Area, Other

** Lakes, Spring vents, Streams, Estuaries

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed.

Table 2: REGULATORY Agencies/Stakeholders Contacted

Receiving Water Name (list all that apply)	Contact and Title	Date Contacted	Follow-up Required (Y/N)	Comments
Crystal Lake	Polk County	10/18/2018	Yes	Three ELA meetings were held. See attached meeting minutes.
Crystal Lake	SWFWMD	02/06/2019	Yes	See attached meeting minutes.
Crystal Lake	City of Lakeland	10/18/2018	Yes	Three ELA meetings were held. See attached meeting minutes.



Project Number: 440274-1-22-01

Project Description: SR 659 Combee Road from US 98 to North Crystal Lake Drive

Meeting Name: ELA meeting

Date/Time: October 18, 2018 9:00am

Location: D1-HQ Elizabeth Moore Room 214

Minutes Prepared By: Gretchen Suarez-Pena

Attendees:

Patrick Bateman (FDOT), Sergio Figueroa (FDOT), Bill Hartmann (FDOT), Lauren Peters (FDOT), Teresa Austin (FDOT), Nicole Monies (FDOT) Jessica Schilling (City of Lakeland), Cole Edwards (City of Lakeland), Phil Irven (Polk County), Barry Switzer (TLP), Matt Dockins (RKK), Jay Patel (Inwood), Michael Garau (Kimley-Horn), Gretchen Suárez-Peña (PGA)

The following notes reflect our understanding of the discussions and decisions made at this meeting. If you have any questions, additions, or comments, please contact us. We will consider the minutes to be accurate unless written notice is received within 5 working days of the date issued.

Meeting Minutes:

Gretchen Suárez-Peña started out the meeting with introductions. Those in attendance (see attendees list) introduced themselves. Michael Garau, project manager, gave an overview of the project. This is a Project Development and Environment Study of Combee Road, or SR 659, from US 98 to North Crystal Lake Drive.

Typical Sections

Michael showed an exhibit of the existing typical section which is comprised mainly of a two-lane undivided roadway with roadside ditches. There is some closed storm sewer throughout the corridor. Michael shared the proposed typical section alternatives:

- The Polk TPO Recommended Alternative – This typical section is comprised of a two-lane divided urban section with two 11-foot travel lanes, one 13-foot two-way left turn median, 4-foot paved shoulders and 6-foot sidewalks on each side.
- The Shared-Use Path Alternative – This typical section is comprised of a two-lane divided urban section with two 11-foot travel lanes, one 13-foot two-way left turn median, a 6-foot sidewalk on one side and a 10-foot shared-use path on the other side.
- The Buffered Bike Lane Alternative – This typical section is comprised of two 11-foot travel lanes, one 13-foot two-way left turn median, a 7-foot buffered bike lane on each side and a 6-foot sidewalk on each side.

Drainage Considerations

Michael stated that although this is not a capacity project, there is some widening, and an addition of a turn lane that should help with traffic. Gretchen then noted that the concept plans provided showed the buffered bike lane alternative. She also addressed that a main concern for this corridor was the considerable offsite runoff coming to the roadway storm sewer system and ditches on the east side. On the west side, offsite runoff is not a concern, but there are no existing drainage features on this side, and the runoff sheet flows into neighborhoods and off



the roadway. There are no defined swales. The proposed curb and gutter system will be a large improvement to the area.

Gretchen went on to address that the main drainage concern for this project is that the added impervious area will need to be treated and attenuated. An individual permit from Southwest Florida Water Management District (SWFWMD) will be needed. Currently, there is no permitted water quality treatment for this facility. Treatment needs were calculated based on two criteria: needing to treat 1 inch over the total impervious area and needing to treat only the additional impervious area. The latter is more advantageous, as it will be less volume to treat. The table provided in the Agenda can be seen below.

	ALTERNATIVE	TOTAL IMPERVIOUS AREA TREATMENT (AC-FT)	ADD'L IMPERVIOUS AREA TREATMENT (AC-FT)	ATTENUATION (AC-FT)
Alt 1	Polk TPO* Recommendations Basin 1	0.55	0.23	1.33
	Polk TPO* Recommendations Basin 2	0.24	0.10	0.56
Alt 2	Shared Use Path Basin 1	0.52	0.20	1.12
	Shared Use Path Basin 2	0.22	0.08	0.48
Alt 3	Buffered Bike Lanes Basin 1	0.61	0.29	1.64
	Buffered Bike Lanes Basin 2	0.26	0.12	0.70

*Transportation Planning Organization

Nicole Monies and Sergio Figueroa confirmed that SWFWMD should be agreeable to only treating the new impervious area as is required by the rule. Bill Hartmann questioned whether SWFWMD would require replacement of the existing incidental treatment in the roadside swales. Sergio said that this is usually not needed.

The stormwater management approach for this project is to provide a regional or joint-use solution. This approach would avoid purchasing right-of-way for ponds, which is especially beneficial on this project, given the development of the corridor and lack of available pond sites. There are two main watershed/basins in this project. The Banana Lake WBID to the south (via Us 98) and the Saddle Creek WBID to the north (via Crystal Lake).

Banana Lake WBID

FDOT already has two permitted ponds along the nearby US 98 corridor: Pond 9 and Pond 2A. Pond 9, the farthest away, is located on the northwest corner of the interchange of Polk Parkway and US 98. Pond 2A is located on the Holloway property southeast of the intersection of Edgewood Drive and US 98. The permitted regional stormwater facility and wetland area within the Holloway property is privately owned and appears to have substantial volume available for treatment and attenuation.

Gretchen did mention that there is a City of Lakeland owned parcel located across from McJunkin Road on the east side of Combee Road. Jessica Schilling and Cole Edwards from the City of Lakeland stated that they were unsure of the use of the parcel but that they would investigate. They believe it is being used as a maintenance staging area for Lakeland Electric.



TLP and Inwood are currently working on the road widening project on US 98 from south of Edgewood Drive to Main Street in Lakeland. Currently, there are three potential pond sites for this project. Pond 1A would be adjacent to FDOT Pond 2A located on the Holloway property. There is also the potential of modifying the already existing Pond 2A. Jay Patel and Barry Switzer mentioned that the owner is not very agreeable, and this may not be a feasible option. Pond 1B would be located on the Ridley USA property. The concern here is that it may be difficult to place an outfall pipe under the CSX line to the final outfall west of US 98. Sergio mentioned that a jack and bore could be possible. Pond 1C would be located on the Greenfield Five LLC property. This is a large site with the potential to accommodate both US 98 and Combee Road runoff. This property may be a more advantageous pond site as it already has a drainage easement that goes to the outfall and it is for sale. The US 98 project needs a 3.5-acre pond. There was some discussion about these pond sites. The Ridley USA property is closer to Combee Road and could be more hydraulically feasible. There was some question as to whether US 98 was currently being treated. It was generally understood that US 98 at this time is not receiving runoff treatment. Treating all of US 98 could be considered compensatory treatment for Combee Road.

Saddle Creek WBID

Polk County permitted and operates the Crystal Lake Drainage Improvement area, along with Crystal Lake as a whole. The City of Lakeland is currently conducting a feasibility study on TMDL and nutrient impairment concerns of Crystal Lake. The City of Lakeland only maintains a small portion of drainage on the southwest side of Crystal Lake. Some potential alternatives in this area include treating the roadway runoff in some sort of geoengineered media like within a tree box filter or using Bold and Gold. Currently, from Skyview Drive to North Crystal Lake Drive, Combee Road runoff goes to Crystal Lake untreated. CDS units or some other type of sediment removal system were also discussed, but these require maintenance. Phil Irven and FDOT staff stated that maintenance would have to be agreeable to these alternatives. For the next ELA meeting, maintenance staff from Polk County and FDOT will be invited, so they can be part of the conversation and provide a “win-win” situation for all parties. Another option is to permit a linear pond on the west side of Combee Road just southeast of Crystal Lake. There is currently an existing ditch there, but it fills with trash and debris. Cleaning up this area would benefit the lake. There was also discussion on the wetland area to the east of Combee Road north of Skyview Drive. This is the main outfall for Crystal Lake and this area can be used as a treatment area. The FDOT has already permitted this area. Usually SWFWMD does not like work within wetlands, but it is a potential option.

Municipal Drainage Concerns

Sergio asked Polk County and the City of Lakeland if there are specific drainage concerns in this area. There was discussion about the Eaton Park area and how it often floods. The discussion also included, the neighborhoods on the west side of Combee Road, in-between Civitan Avenue and Kiwanis Avenue, as they receive extensive roadway runoff from Combee Road and experience substantial flooding. The proposed curb and gutter system for Combee Road will alleviate this flooding. Finding a permittable water quality and quantity alternative for this corridor will ensure that the storm sewer concept can alleviate these drainage issues within the study limits and in adjacent communities.

Action Items:

The following are action items to be complete before the next ELA meeting:

- The Combee Road PD&E Study Team (PGA and Kimley Horn) will layout the following alternatives for water quality and quantity



- Crystal Lake improvements using CDS units, Gold and Bold, tree box filters, a linear pond, or improving the wetland to the east.
- For the Banana Lake basin to the south consider Pond 1B and Pond 1C locations and coordinate with TLP and Inwood on their water quality and quantity needs. Determine hydraulic feasibility or compensatory treatment in this basin. Follow up with City of Lakeland on the use and availability of the City owned parcel.
- The next ELA meeting will take place in early December
- A preapplication meeting with SWFWMD will take place in early February 2019
- The public meeting for this PD&E will take place spring 2019 and the final ELA meeting will take place after that meeting for final recommendations to be included in the PD&E documentation.
- Meeting invitations for the next ELA meeting will be forwarded on to Natural Resource personnel at the County and/or City and to any maintenance personnel from FDOT and Polk County.

Exhibits from the Meeting are attached to these minutes.



Patel, Greene & Associates, PLLC
Small Firm Service / Big Firm Experience
215 East Main Street, Bartow, FL 33830
Tel: 863.533.7317 | www.patelgreene.com

MEETING MINUTES

ATTACHMENTS:

Sign-in Sheet
Typical Section Alternatives
Concept Plans
Potential Pond Site Exhibit
US 98 Project Potential Ponds



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SIGN-IN SHEET





Project Number: 440274-1-22-01

Project Description: SR 659 Combee Road from US 98 to Skyview Drive

Meeting Name: FDOT ELA Kick-off meeting

Date/Time: July 26, 2018 1:30pm

Location: D1- HQ DEMO Room 231

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
PBB	Patrick Bateman	FDOT	863-519-2792	Patrick.Bateman@dot.state.fl.us
	Brent Setchell	FDOT	863-519-2557	Brent.Setchell@dot.state.fl.us
	Sergio Figueroa	FDOT	863-519-2839	Sergio.Figueroa2@dot.state.fl.us
WH	Bill Hartmann	FDOT	863-519-2293	William.Hartmann@dot.state.fl.us
	Lauren Peters	FDOT		Lauren.Peters@dot.state.fl.us
	Jessica Schilling	City of Lakeland	863-834-8439	jessica.schilling@lakelandgov.net
	Phil Irvn	Polk County	863-535-2200	Phillrvn@polk-county.net
BS	Barry Switzer	TLP	407-574-5852	barry.switzer@tlpeng.com

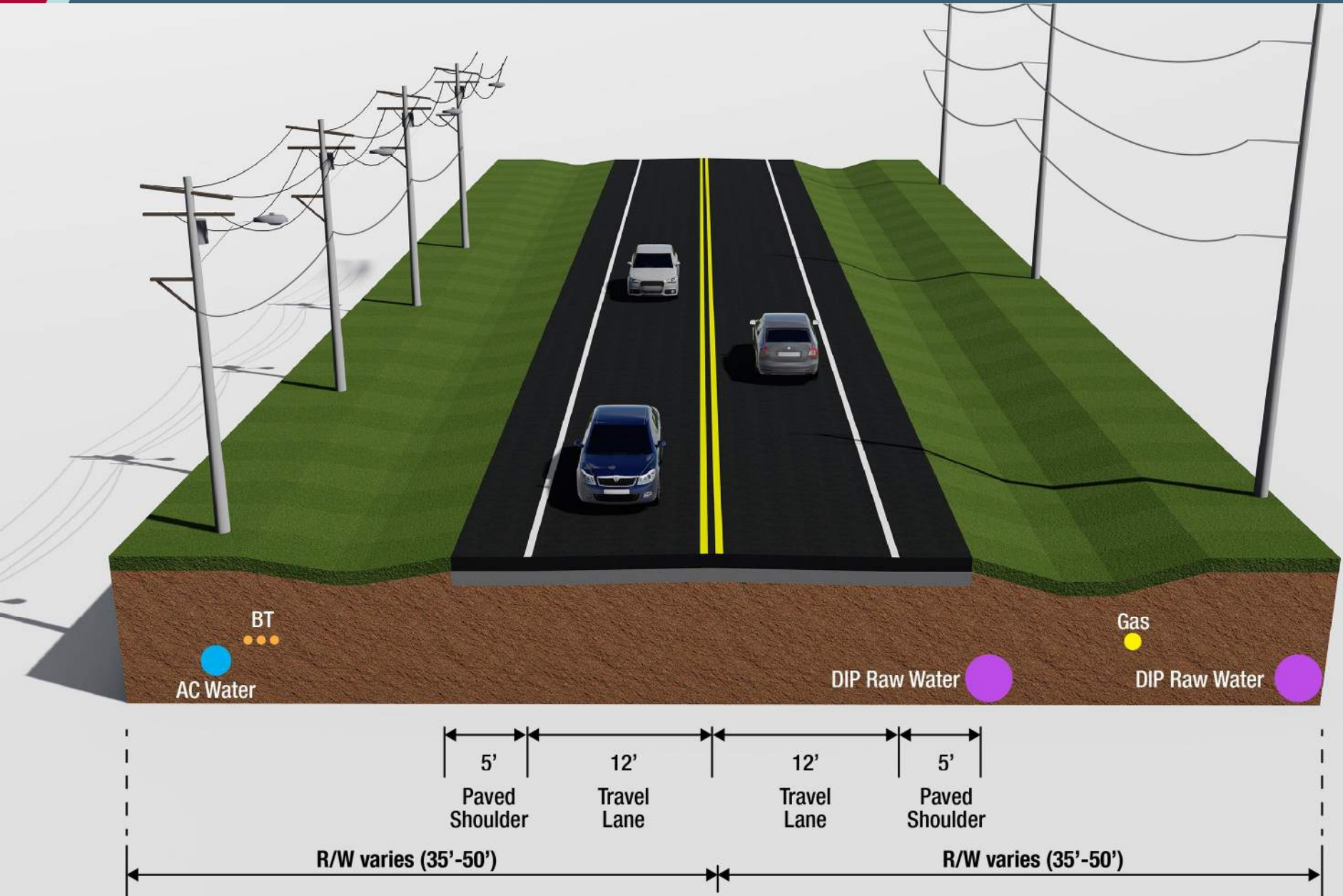


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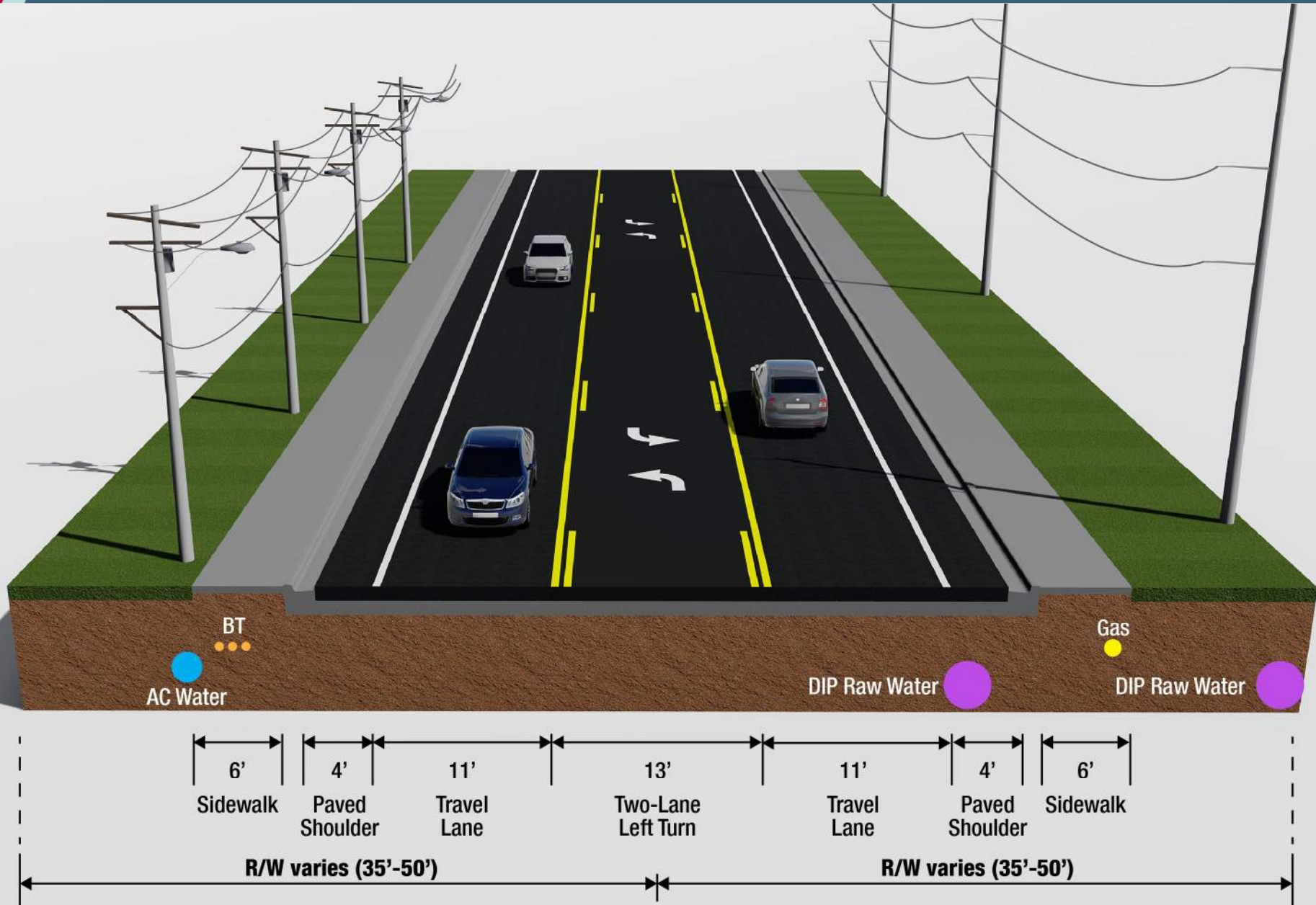
SIGN-IN SHEET

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
M DP	Matt Dockins	RKK	813-386-1460	mdockins@rkk.com
MG	Michael Garau	Kimley-Horn	407-427-1618	Michael.Garau@kimley-horn.com
GS	Gretchen Suarez-Pena	PGA	863-533-7317 ext. 202	Gretchen.Suarez-Pena@patelgreene.com
	Tim Polk	PGA	863-533-7317 ext. 205	Tim.Polk@patelgreene.com
JP	Jay Patel	Inwood	407 971 8850	jpatel@inwoodinc.com
CE	Colc Edwards	CITY OF LAKELAND	863 834 3307	colc.edwards@lakeand.gov.net
TA	Teresa Austin	FDOT	863-519-2621	teresa.austine@dot.state.fl.us
MM	Nicole Montes	FDOT-Permits	863-519-2351	nicole.montes@dot.state.fl.us

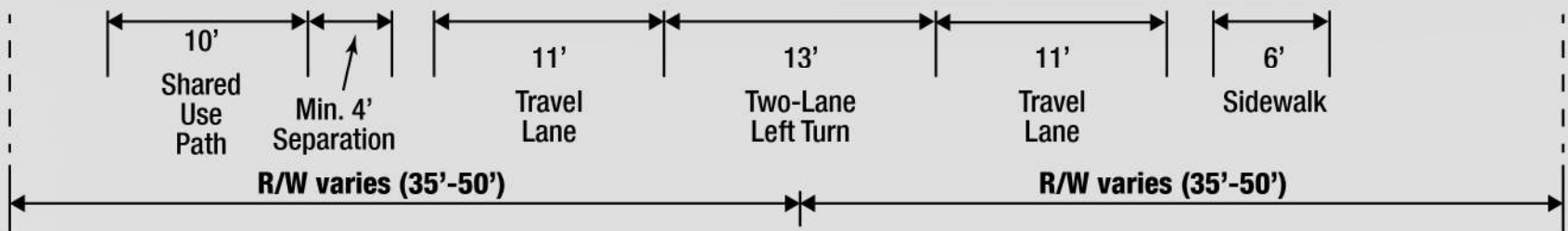
Existing Typical Section



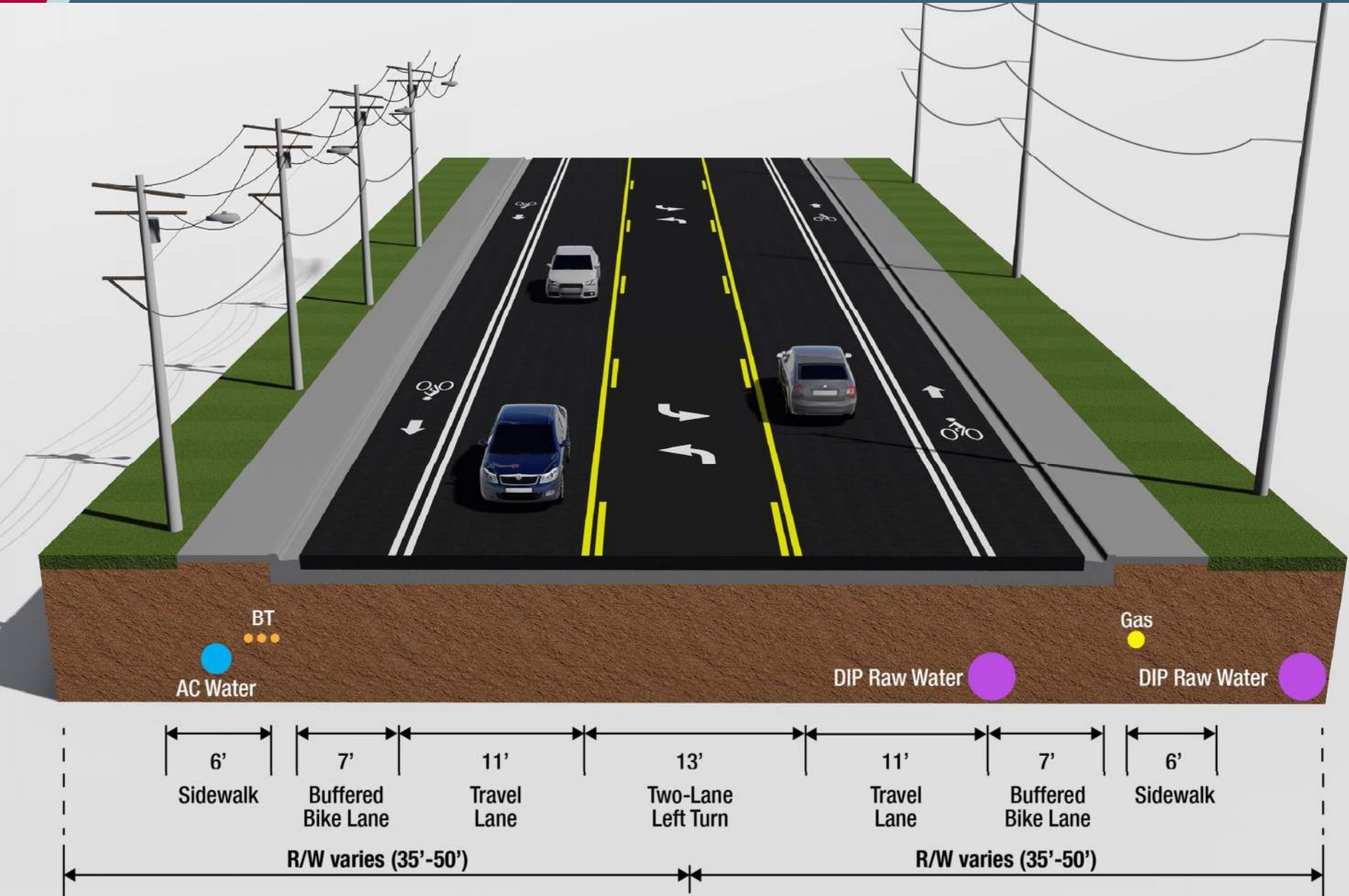
Polk TPO Recommendation

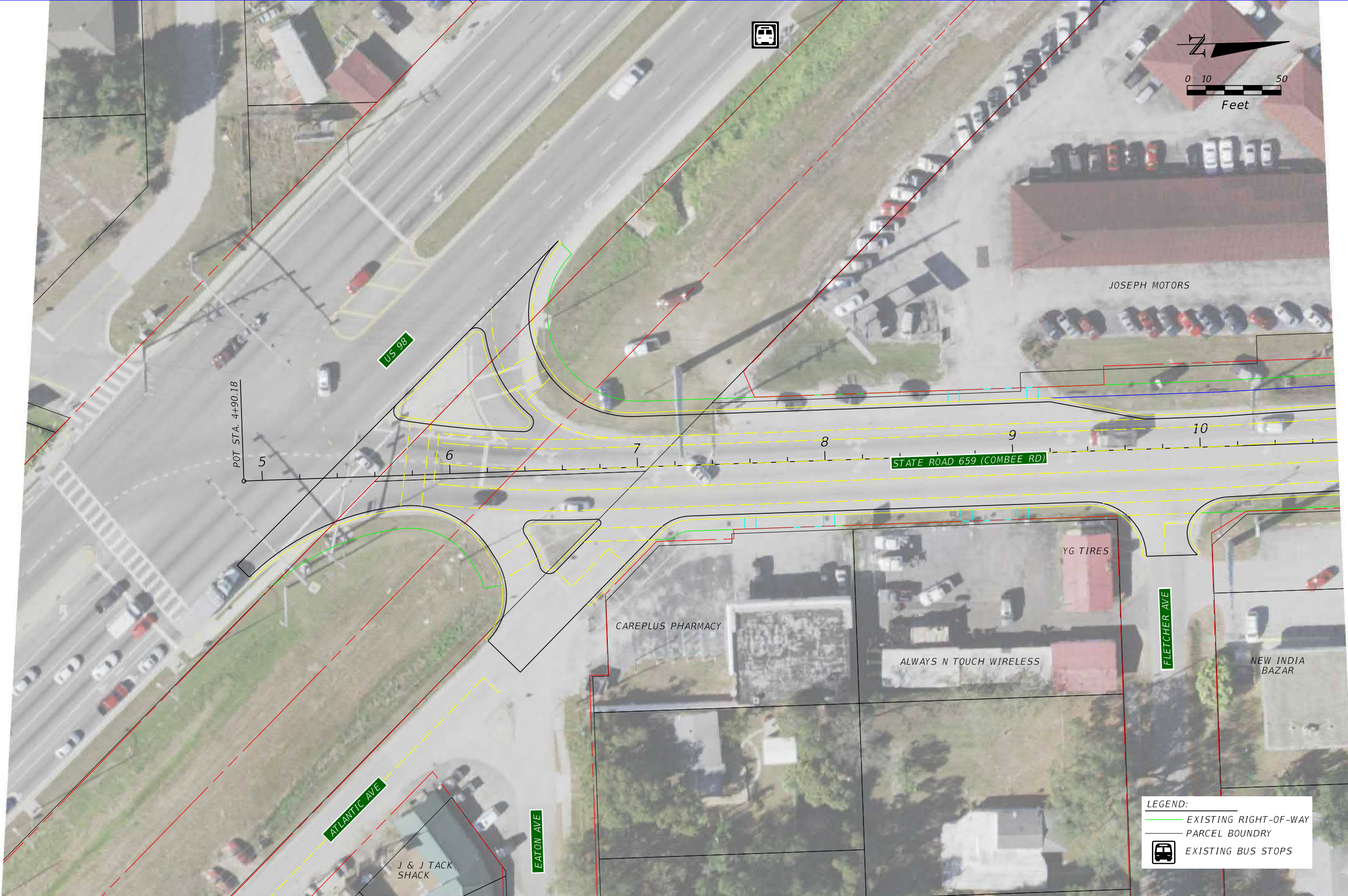


Shared-Use Path Option



Buffered Bike Lane Option





POT STA. 4+90.18

5

6

7

8

9

10

US 98

STATE ROAD 659 (COMBEE RD)

ATLANTIC AVE

EATON AVE

FLETCHER AVE

YG TIRES

CAREPLUS PHARMACY

ALWAYS N TOUCH WIRELESS

NEW INDIA BAZAR

J & J TACK SHACK

LEGEND:

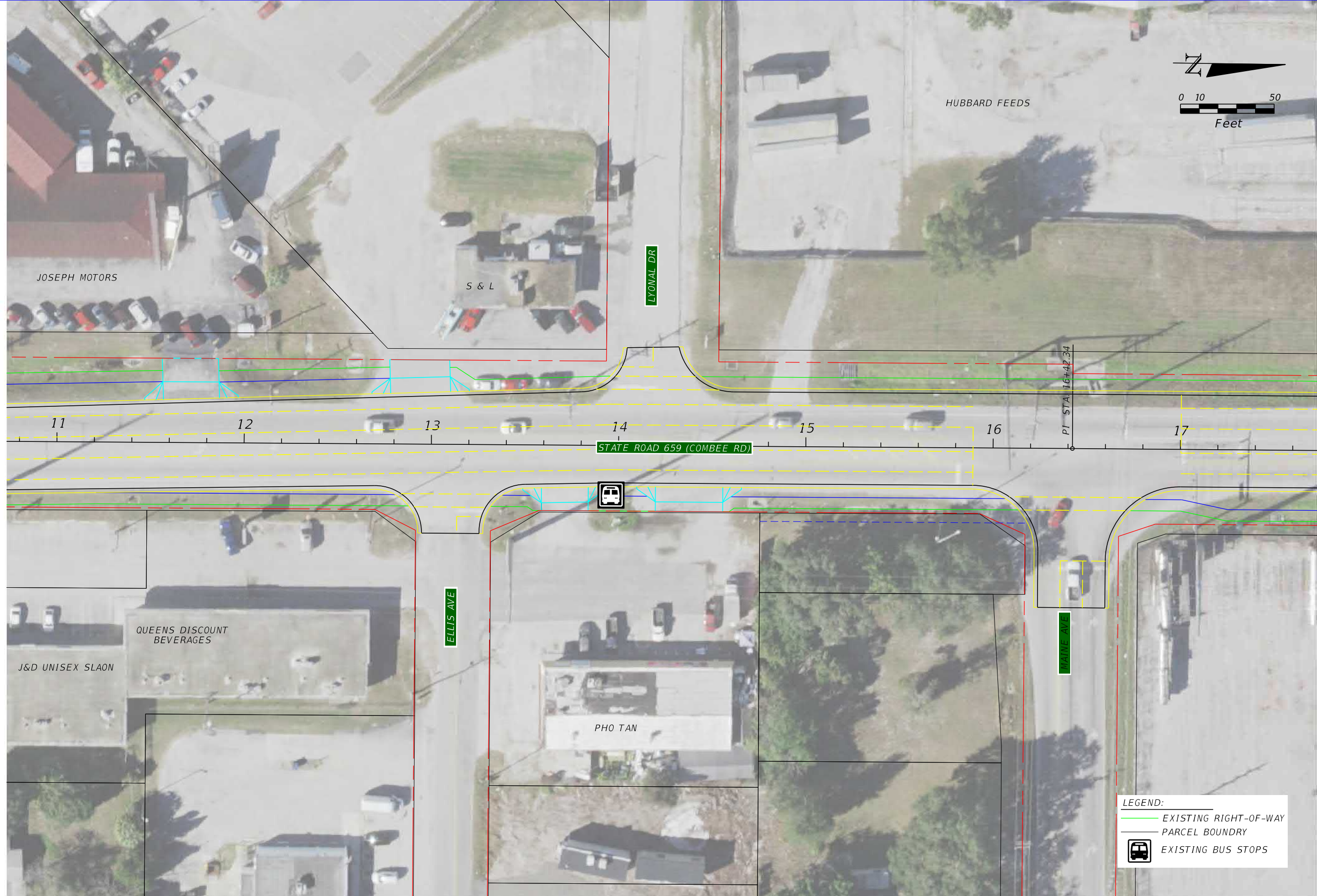
- EXISTING RIGHT-OF-WAY
- PARCEL BOUNDARY
- EXISTING BUS STOPS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		149881000

PLAN SHEET

SHEET NO.
1



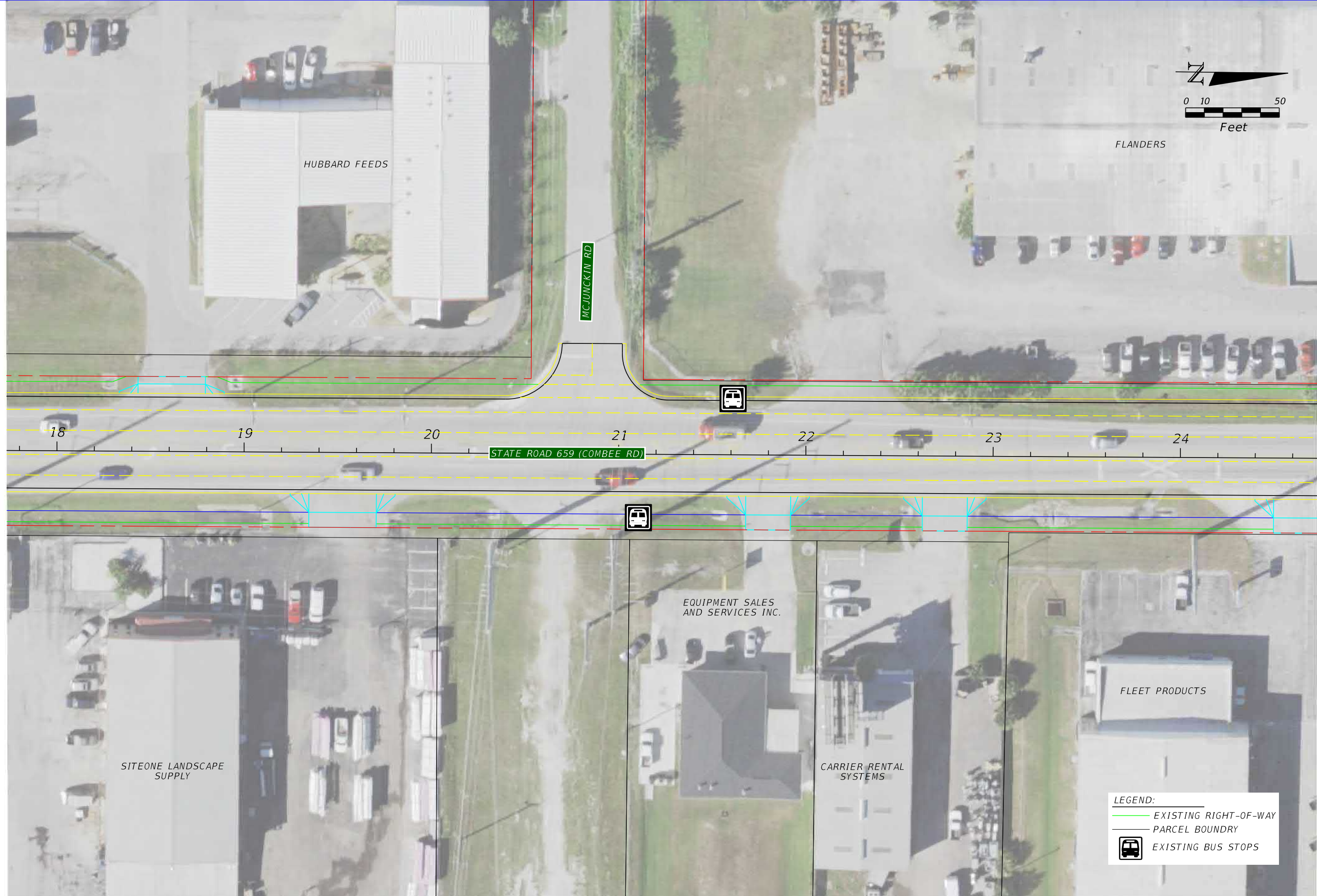
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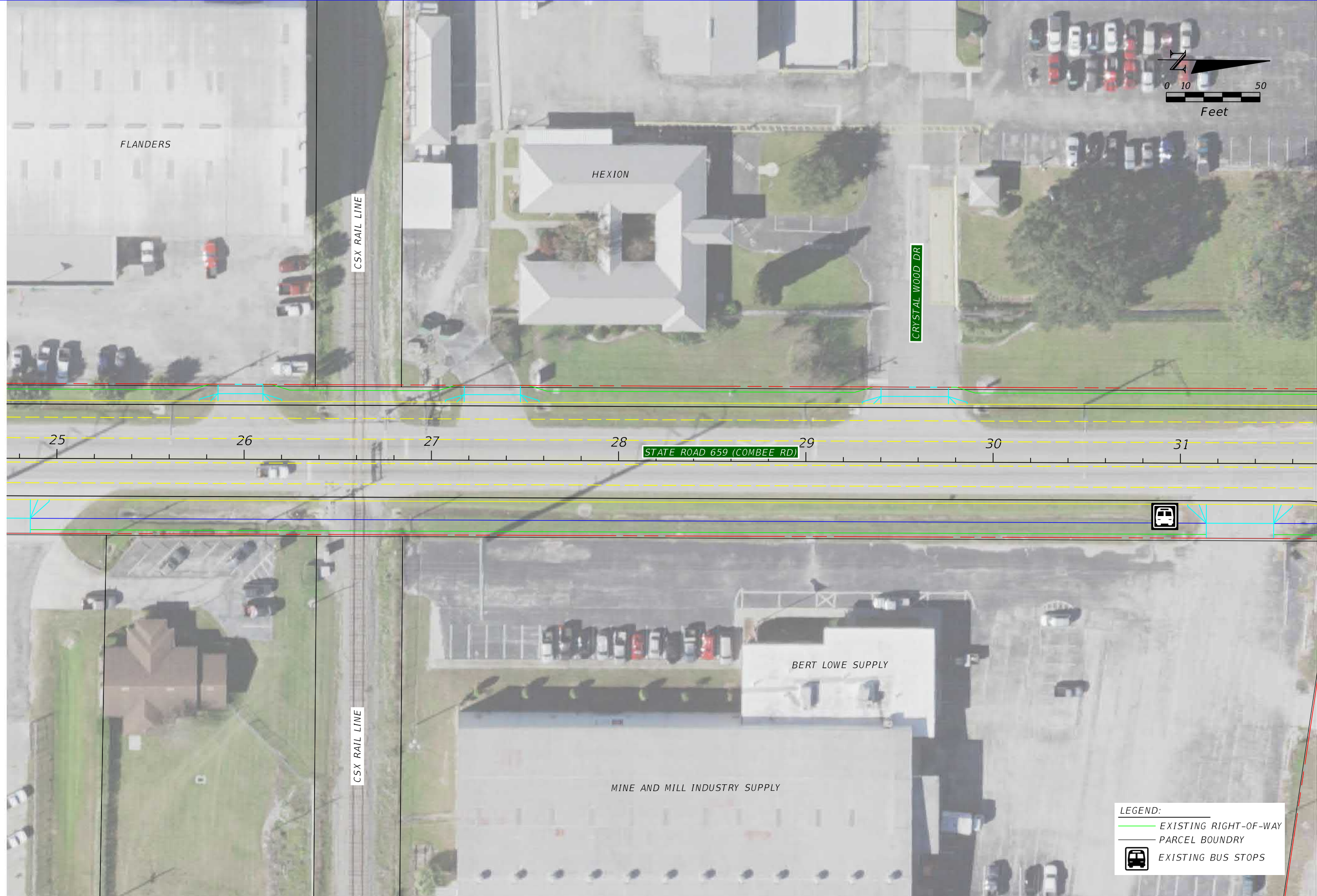
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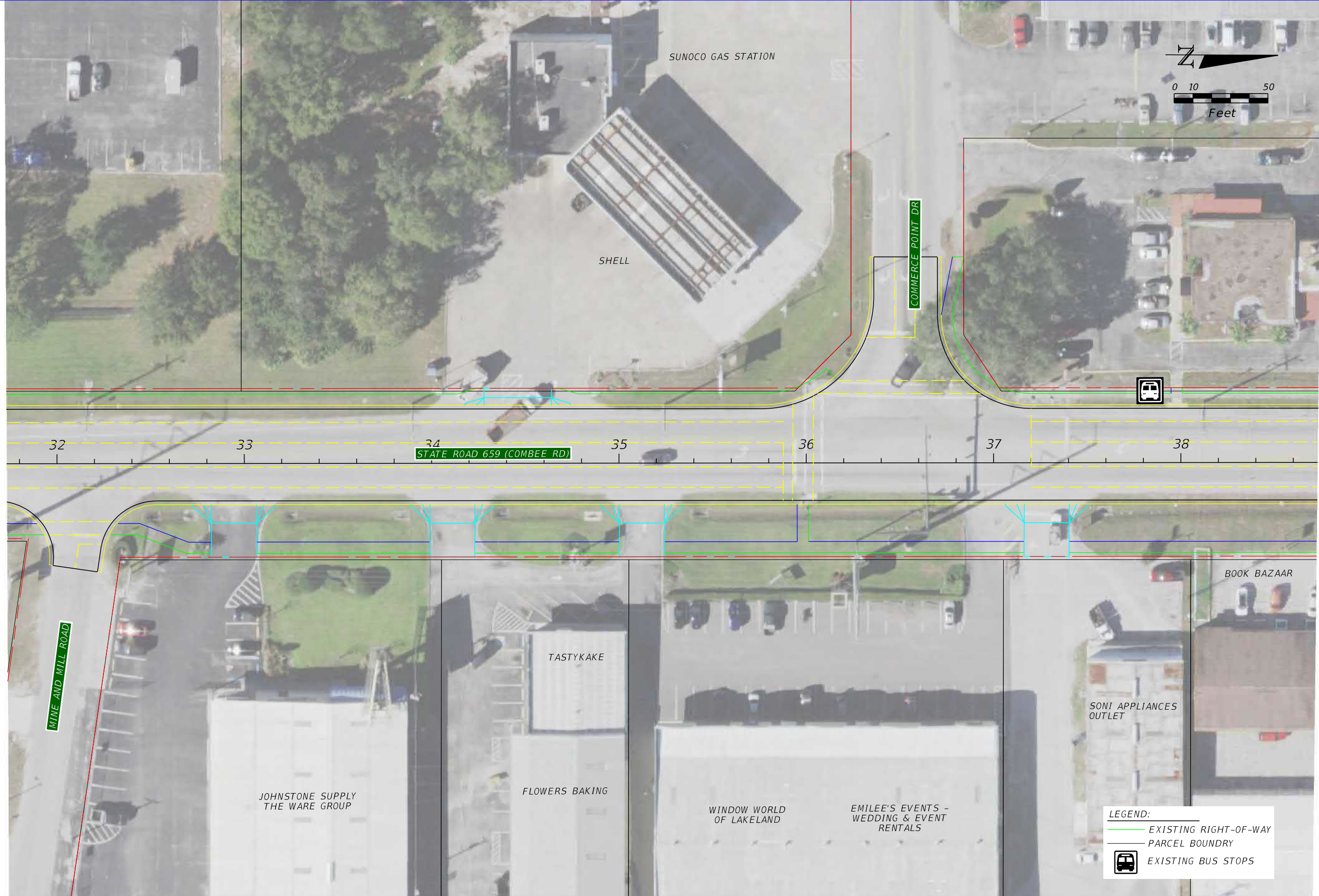
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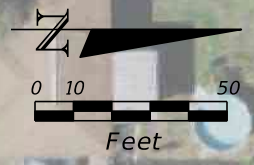
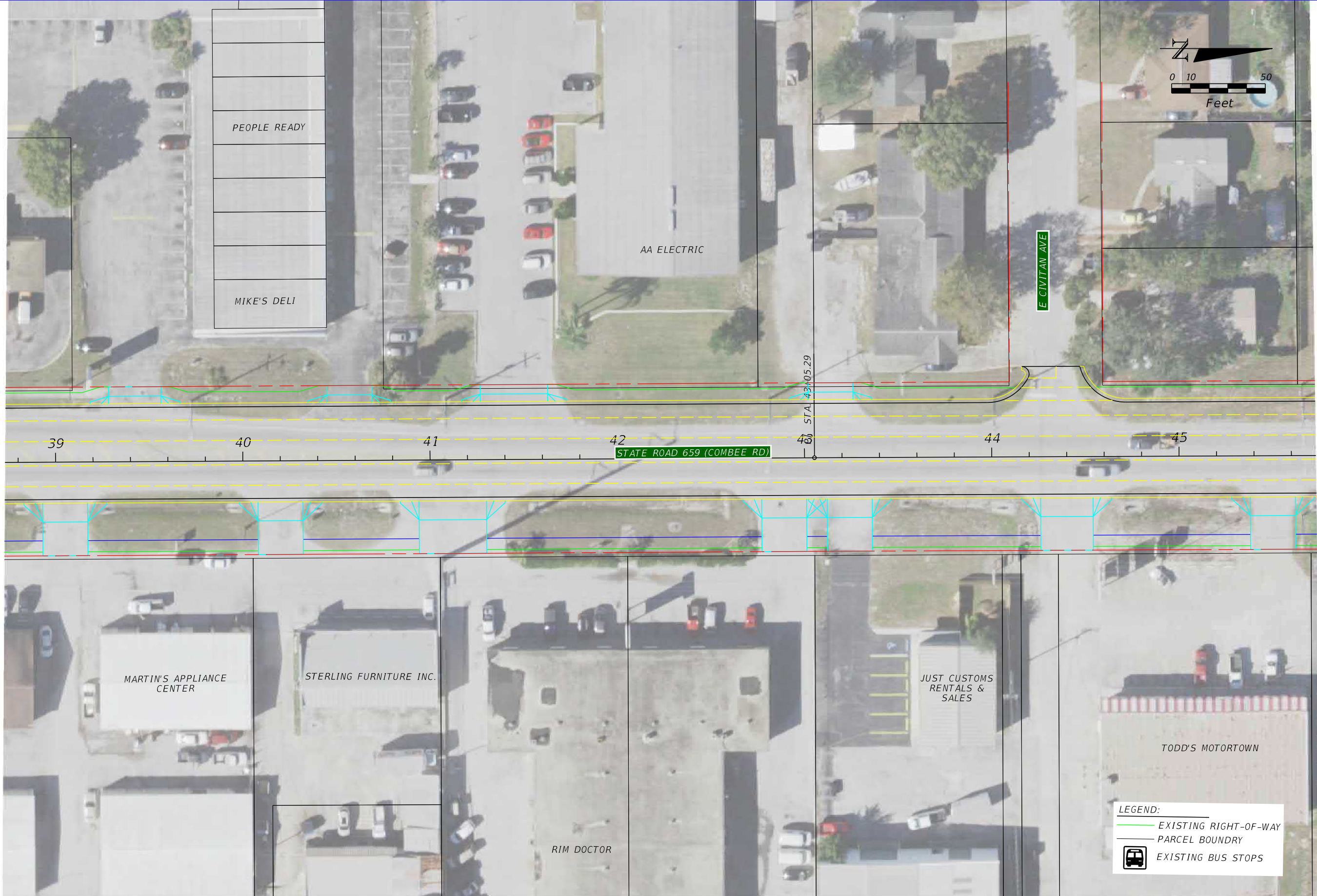
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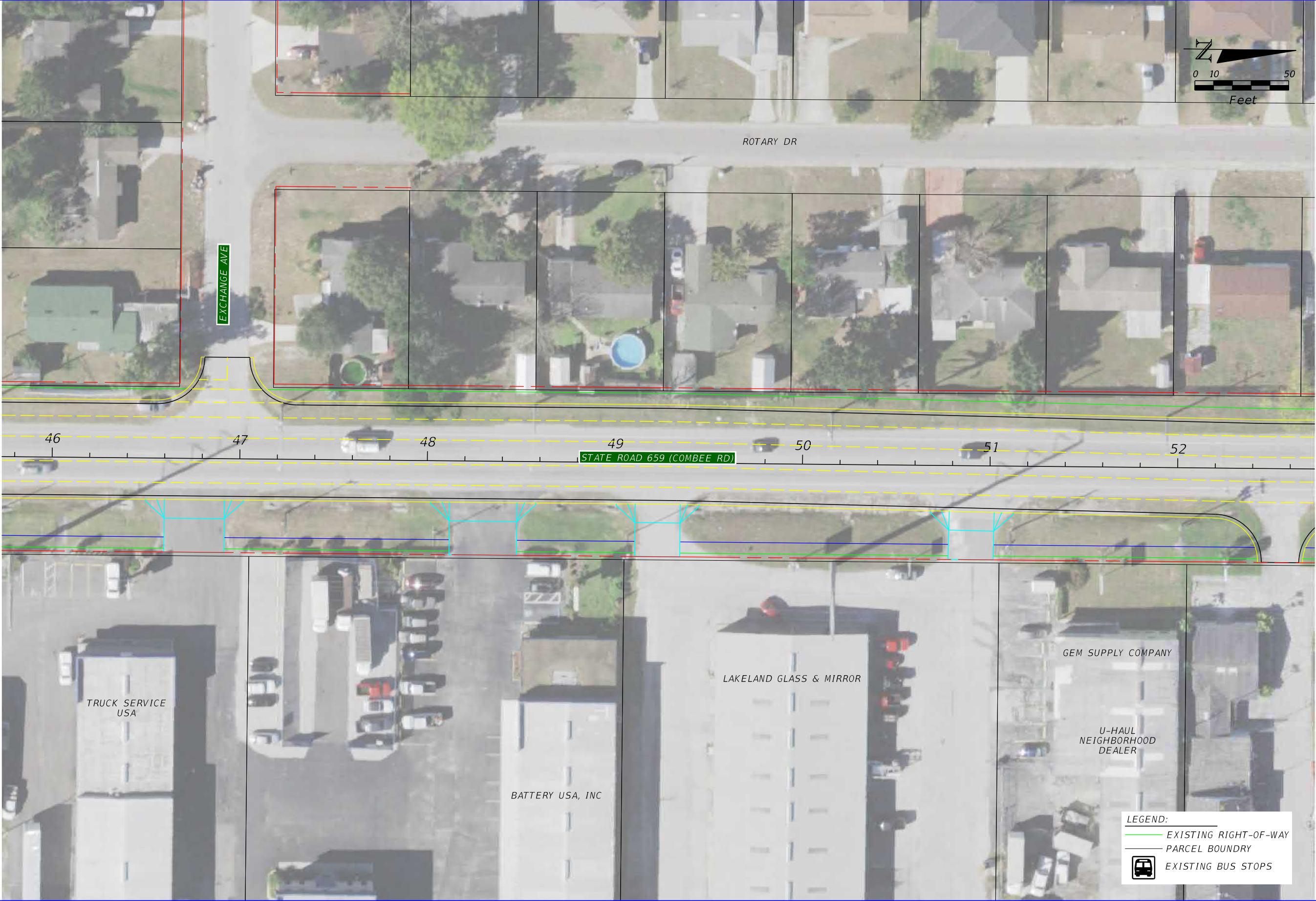
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39 40 41 42 43 STA. 43+05.29 44 45
 STATE ROAD 659 (COMBEE RD)

LEGEND:
 ——— EXISTING RIGHT-OF-WAY
 ——— PARCEL BOUNDRY
 EXISTING BUS STOPS

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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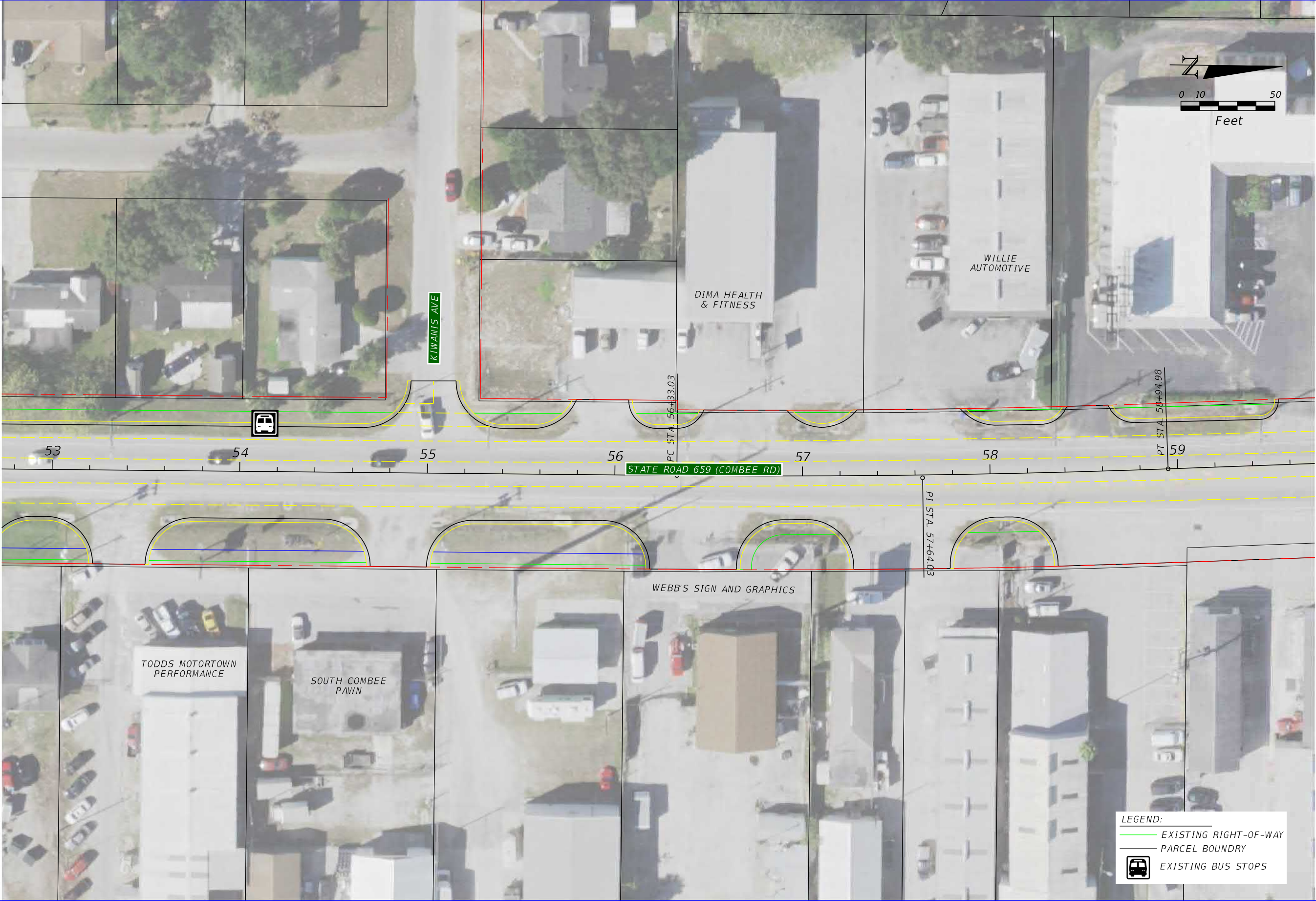


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SHEET NO.
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LEGEND:

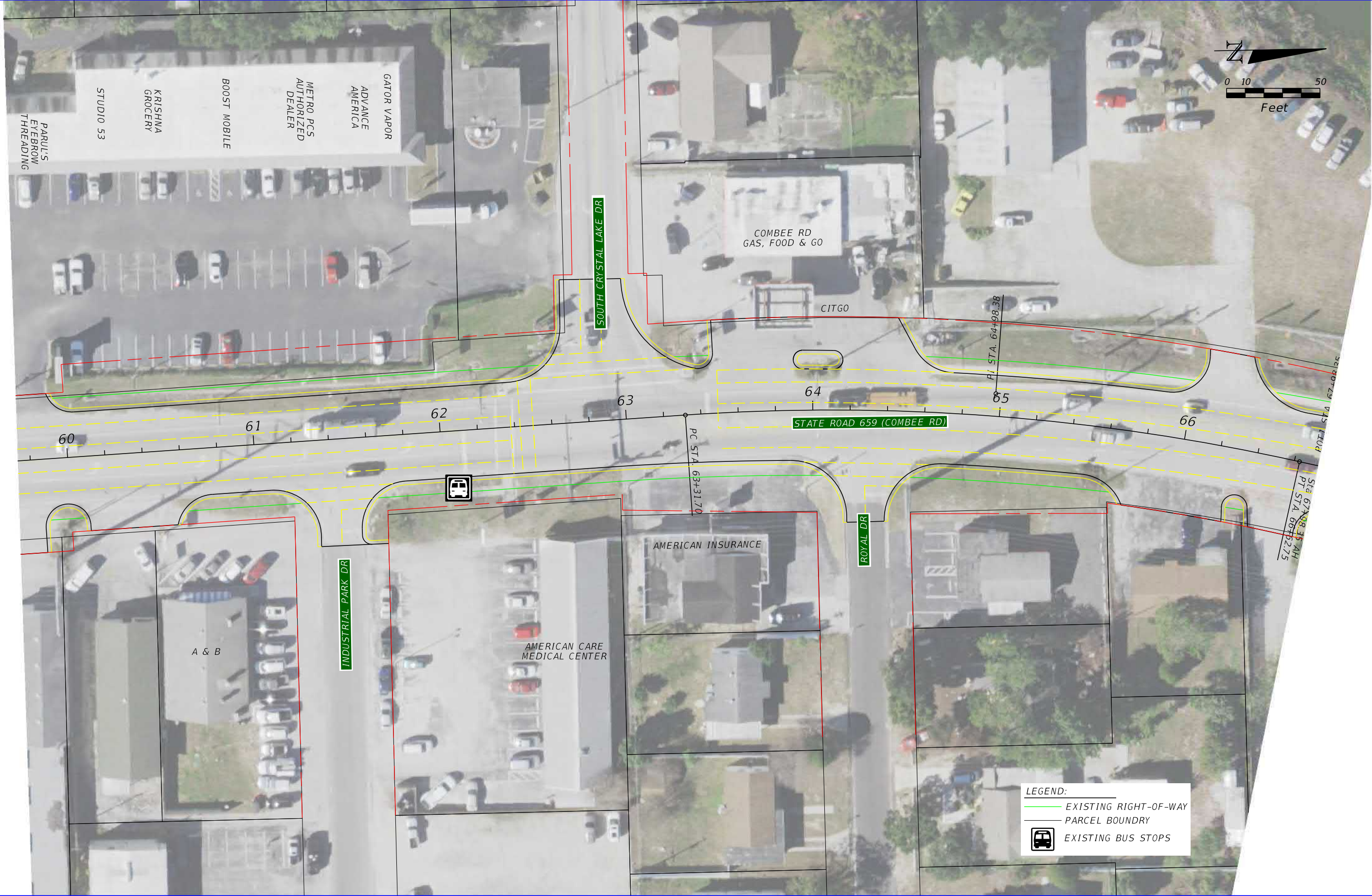
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- PARCEL BOUNDARY
- EXISTING BUS STOPS

REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PLAN SHEET

SHEET NO.
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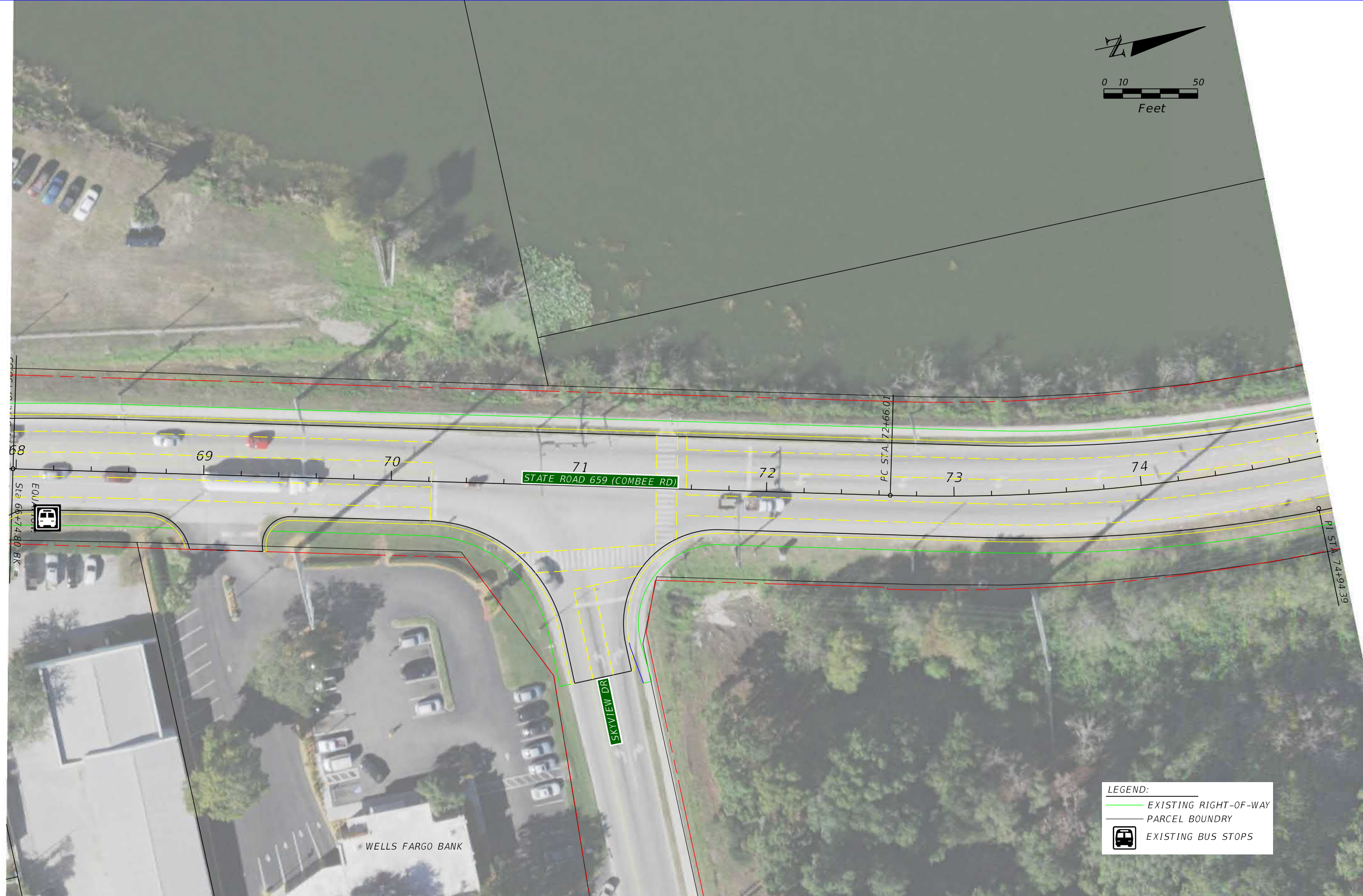
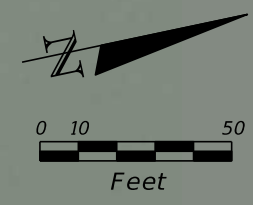
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PLAN SHEET
9

SHEET NO. 9

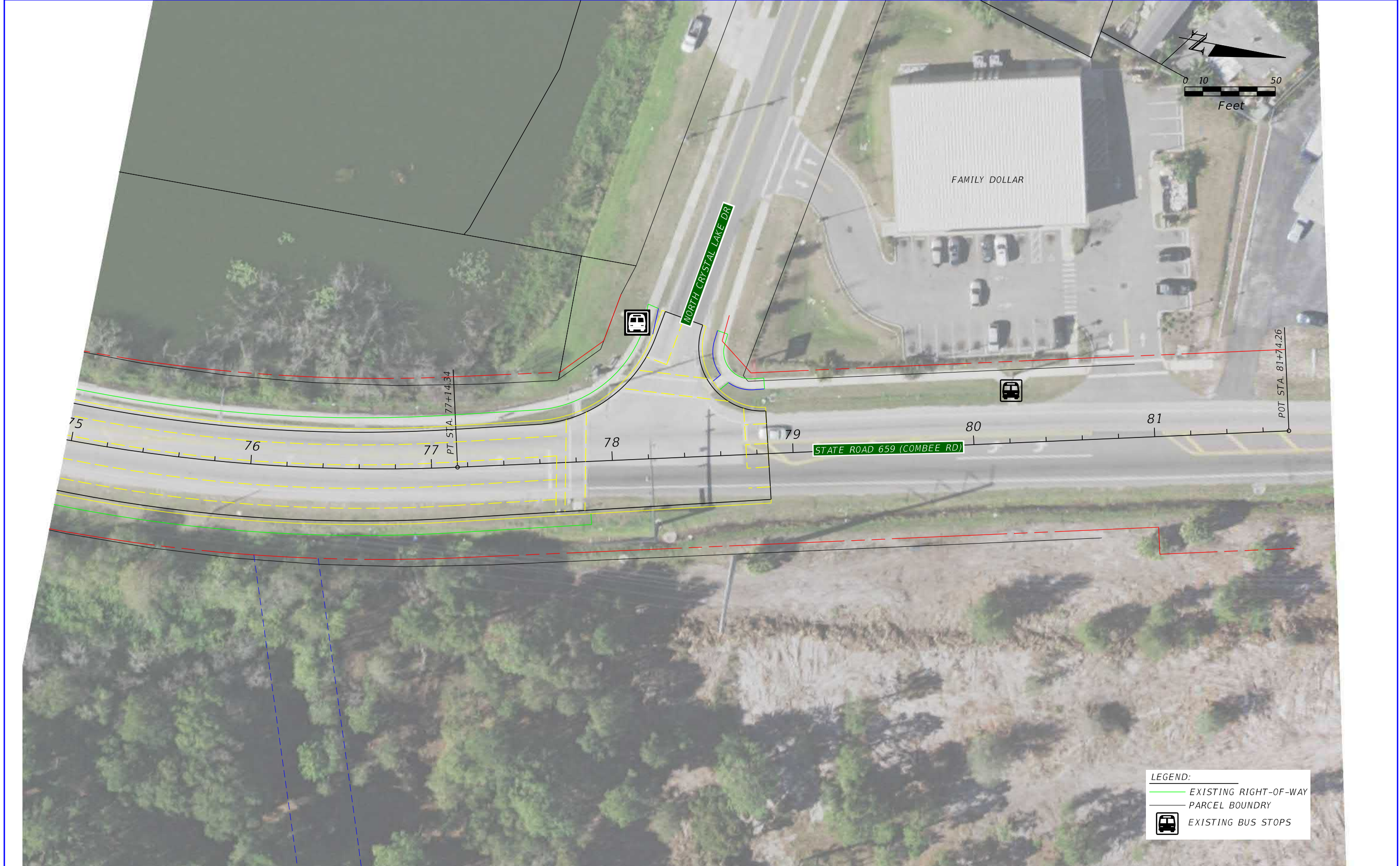


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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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PLAN SHEET
10

SHEET NO.
10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		149881000

PLAN SHEET

SHEET NO.
11



SWFWMD
Per. No.
44010422
BMP

Skyview Drive

S. Crystal Lake Drive

Kiwanis Avenue

Commerce Point Drive

Mine and Mill Road

Ridley USA Inc.

City of Lakeland

Proposed Pond 1B

Greenfield Five LLC

Maine Avenue

Edward E. Holloway Jr.

SWFWMD
Per. No.
4402430
North Lake

Proposed Pond 1A

SWFWMD
Per. No.
44019176
Pond 2A

US 98

SWFWMD
Per. No.
4402430
Lake Wetland

SWFWMD
Per. No.
4402430
Filter Res.

SWFWMD
Per. No.
44019176
Pond 9



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND LOCATION 1A	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 35	POLK	197562-4-32-01		

TLP ENGINEERING CONSULTANTS, INC.
 11486 CORPORATE BLVD., SUITE 151
 ORLANDO, FL. 32817
 PH: 407-901-5060
 JAMES E. MYERS, P.E. 44751
 CERT. OF AUTH. #27205



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TLP ENGINEERING CONSULTANTS, INC.
 11486 CORPORATE BLVD., SUITE 151
 ORLANDO, FL. 32817
 PH: 407-901-5060
 JAMES E. MYERS, P.E. 44751
 CERT. OF AUTH. #27205

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 35	POLK	197562-4-32-01

POND LOCATION 1B

SHEET NO.



Project Number: 440274-1-22-01

Project Description: SR 659 Combee Road from US 98 to North Crystal Lake Drive

Meeting Name: ELA Meeting 2

Date: December 17, 2018

Location: D1- HQ

Attendees:

Patrick Bateman (FDOT), Sergio Figueroa (FDOT), Brent Setchell (FDOT), Bill Hartmann (FDOT), Lauren Peters (FDOT), Teresa Austin (FDOT), Sharon Hedrick Harris (FDOT), Jessica Schilling (City of Lakeland), Phil Irvén (Polk County), Jay Jarvis (Polk County), Matt Dockins (RKK), Michael Garau (Kimley-Horn), Gretchen Suárez-Peña (PGA), Tim Polk (PGA), Jen Rehl (PGA), William Roll (KH)

The following notes reflect our understanding of the discussions and decisions made at this meeting. If you have any questions, additions, or comments, please contact us. We will consider the minutes to be accurate unless written notice is received within 5 working days of the date issued.

Meeting Minutes

Gretchen Suárez-Peña started the meeting by addressing some of the items discussed in the previous ELA meeting. Michael Garau then addressed the purpose of this PD&E, which is to study concepts to improve Combee Road. The proposed typical section has two lanes with a two-way, center turn lane.

The purpose of this second ELA meeting is to discuss ways to address the drainage requirements in a cooperative agreement with the following involved parties: FDOT, Polk County and the City of Lakeland. Ideally, a regional approach can be implemented that benefits the watersheds and all the stakeholders.

The only ROW acquisition for this project is for stormwater management (ponds). There is no existing treatment provided for Combee Road. The proposed improvements add relatively little additional pavement to the existing condition.

The project can be divided into two separate basins. Basin 1, which is part of the greater Banana Lake watershed is located to the south from US 98 to Kiwanis Avenue. Basin 2, which discharges to Crystal Lake is part of the Saddle Creek Basin, is the northern basin from Kiwanis Avenue to N. Crystal Lake Road.

Currently, there are two pond sites being considered as alternatives to serve the stormwater needs for Basin 1. Pond 1A, is within the Ridley USA Inc. property. The pond is being proposed to the west of the existing buildings and parking lot. This pond site is 3.8 acres, which would be enough to provide the necessary treatment and attenuation for Basin 1. Currently, this parcel is also being considered for the US 98 widening project. However, it is not a preferred alternative.



The US 98 design team still needs to provide treatment calculations if this will be a joint-use pond. The pond will discharge south into the existing US 98 roadside ditch, as the parcel does in the existing condition. The option of using the existing cross drain under US 98 for discharge of this pond alternative was brought up during the meeting.

There was a question regarding the use of the existing Polk County regional stormwater management area north of the Polk Parkway. There appeared to be available capacity for treatment and attenuation in this facility. However, Polk County staff said this area is now a private park and is not available for any stormwater management use. The project can still discharge there, as that is the existing drainage pattern, as long as pre-post is met. In the first ELA meeting, the use of this area for treatment and attenuation was unfeasible.

Pond 1B, the second pond site alternative for Basin 1, is located east of Combee Road in a parcel owned by the City of Lakeland. The parcel is 1.9 acres and it can meet the stormwater management needs for Basin 1 as a wet pond. City of Lakeland staff stated that the parcel is used for Lakeland Electric equipment staging and access. There are major transmission poles which would need to be accounted for and avoided if this site is selected. Further coordination with Lakeland Electric and the City of Lakeland is needed to discuss the possibility of using this site for stormwater purposes.

Basin 2 has three alternative pond sites. Pond 2A is located at the northern end of Crystal Lake. It is an existing pond owned by Polk County with an existing 0.29 inches of runoff being treated in the pond. The City of Lakeland Crystal Lake TMDL Implementation Final Report recommends that untreated Combee Road runoff be redirected to Pond A. This can be achieved by retrofitting the existing closed flume inlets along Combee Road into a closed storm sewer system so that they discharge to into Pond 2A.

Two other alternatives are Pond 2B and Pond 2C. Pond 2B is currently a ditch area collecting runoff from Combee Road and discharging into Crystal Lake. This area is 0.2 acres. This ditch would be converted into a linear pond, with a control structure placed at the downstream end before discharging into Crystal Lake. Pond 2C is within a parcel owned by an auto repair shop. It is approximately 0.8 acres when combines with the ditch area. This would be a total take right-of-way purchase.

During the meeting, it was confirmed that there is no shifting of the alignment outside the right of way.

There was discussion on the use of alternative stormwater treatment methods such as Bold and Gold, tree filters and CDS units. The main question was if these methods are implemented, how will they be maintained. FDOT Maintenance stated that they prefer low maintenance alternatives due to their lack of man power and equipment, such as vac trucks. FDOT staff did state that they would be willing to pay for the construction of the improvements if either the City or the County would be willing to maintain it. Both Polk County and City of Lakeland stated that further coordination would be needed before there was a commitment on their part to maintain alternative treatment methods. The lack of funds for maintenance for both entities was brought up as a hinderance to committing to this task.



MEETING MINUTES

FDOT stated that they would not be able to maintain any alternative treatment options. FDOT believes there are good pond alternatives available for this project, therefore there is no need to look at options that require a lot of maintenance.

The question of using the wetland area located east of Combee Road at N. Crystal Lake Drive was brought up. Due to the permitting complexity and environmental sensitivity of the site, it is a low priority option.

Action Items

- Coordination with Lakeland Electric regarding the City of Lakeland parcel where Pond 1B is proposed.
- Set up “pre-app” meeting with SWFWMD
- Coordination with City of Lakeland and Polk County regarding the possibility of maintenance agreement if proprietary products are used.
- PD&E team to provide a maintenance cost estimate to help the entities involved make a better decision.
- Continued coordination on the treatment and attenuation needs for the US 98 widening project.
- Final ELA meeting in February for the final recommended alternatives.
- Optional Services will probably be encumbered to evaluate more conventional pond alternatives in the southern basin in the PSR.
- Due to the limited increase in the additional impervious area in the northern basin, joint-use with the existing County facility is still feasible.

Exhibits from the Meeting and the Sign-In sheet are attached to these minutes.

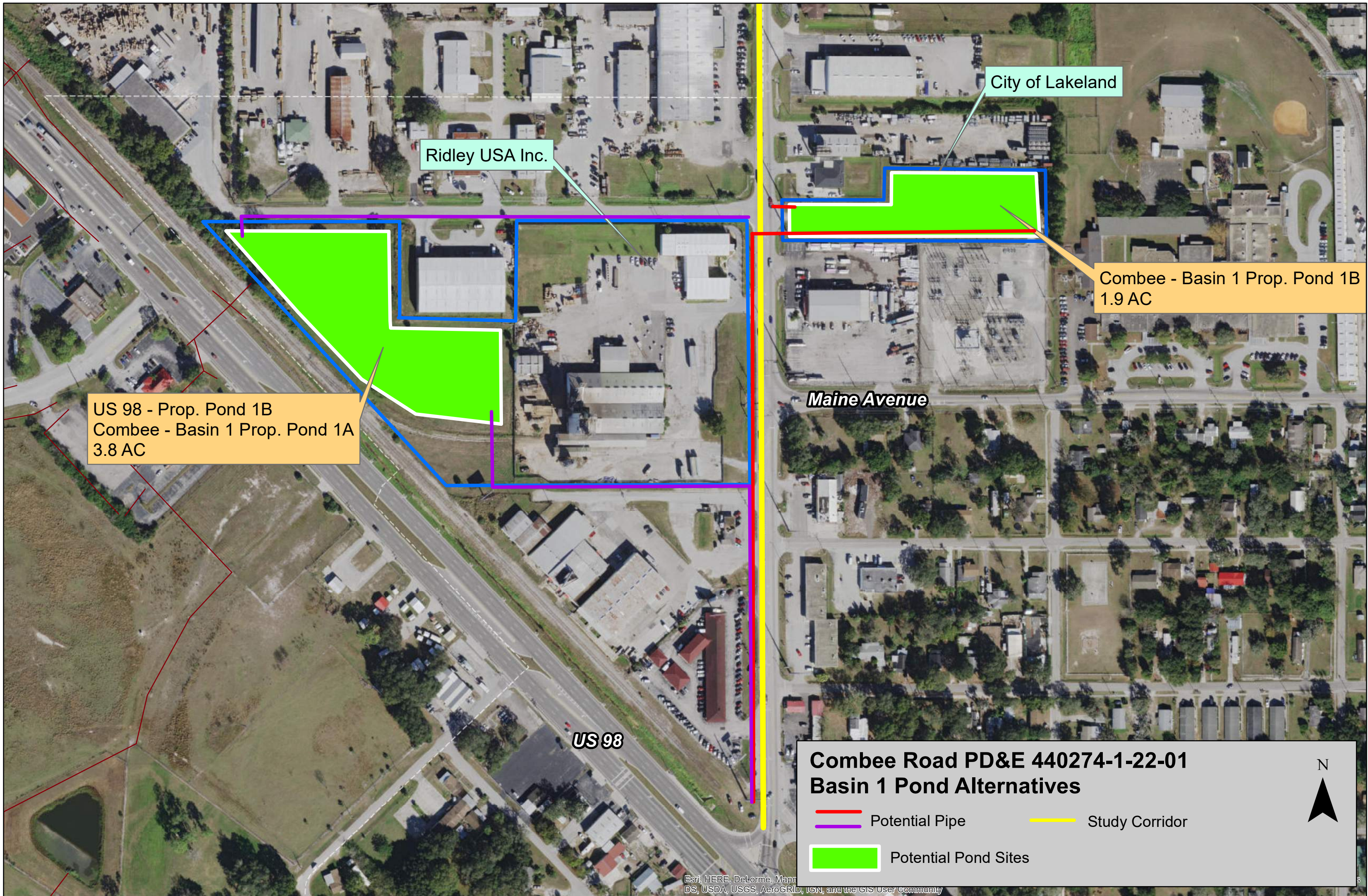


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MEETING MINUTES

ATTACHMENTS:

Potential Pond Site Exhibits
Sign-in Sheet



Ridley USA Inc.

City of Lakeland

US 98 - Prop. Pond 1B
Combee - Basin 1 Prop. Pond 1A
3.8 AC

Combee - Basin 1 Prop. Pond 1B
1.9 AC

Maine Avenue

US 98

Combee Road PD&E 440274-1-22-01 Basin 1 Pond Alternatives

- Potential Pipe
- Potential Pipe
- Study Corridor
- Potential Pond Sites



Esri, HERE, DeLorme, Mapbox, Microsoft, Swatch, USGS, AeroGRID, IGN, and the GIS User Community

SWFWMD
Per. No. 44010422 BMP

Combee - Basin 2 Prop. Pond 2A
1.1 AC

Combee - Basin 2 Prop. Pond 2B/2C
0.2/0.8 AC

Skyview Drive

S. Crystal Lake Drive

**Combee Road PD&E 440274-1-22-01
Basin 2 Pond Alternatives**

-  Potential Pipe
-  Potential Pipe
-  Study Corridor
-  Potential Pond Sites





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SIGN-IN SHEET

Project Number: 440274-1-22-01
Project Description: SR 659 Combee Road from US 98 to Skyview Drive
Meeting Name: FDOT ELA Meeting 2
Date/Time: November 18, 2018 8:30am
Location: D1- HQ

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
PBB	Patrick Bateman	FDOT	863-519-2792	Patrick.Bateman@dot.state.fl.us
Bd	Brent Setchell	FDOT	863-519-2557	Brent.Setchell@dot.state.fl.us
	Sergio Figueroa	FDOT	863-519-2839	Sergio.Figueroa2@dot.state.fl.us
	Teresa Austin	FDOT	863-519-2621	Teresa.austin@dot.state.fl.us
	Bill Hartmann	FDOT	863-519-2293	William.Hartmann@dot.state.fl.us
	Lauren Peters	FDOT		Lauren.Peters@dot.state.fl.us
	Nicole Monies	FDOT	863-519-2351	Nicole.monies@dot.state.fl.us
	Lavenia Toole	FDOT Maintenance	863-519-4310	lavenia.toole@dot.state.fl.us



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SIGN-IN SHEET

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
	Sharon Hedrick Harris	FDOT Maintenance	863-519-2315	Sharon.HedrickHarris@dot.state.fl.us
	Jessica Schilling	City of Lakeland	863-834-8439	jessica.schilling@lakelandgov.net
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	Barry Switzer	TLP	407-574-5852	barry.switzer@tlpeng.com
	Jay Patel	Inwood	407-971-8850	jpatel@inwoodinc.com
	Matt Dockins	RKK	813-386-1460	mdockins@rkk.com
	Michael Garau	Kimley-Horn	407-427-1618	Michael.Garau@kimley-horn.com
	Gretchen Suarez-Pena	PGA	863-533-7317 ext. 202	Gretchen.Suarez-Pena@patelgreene.com



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SIGN-IN SHEET

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
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TAP	Tim Polk	PGA Drainage	803-533-7317	tim.polk@patelgreene.com
WFM	William Roll	KH	863-608-5304	williamroll@kimley-horn.com





Project Number: 440274-1-22-01

Project Description: SR 659 Combee Road from US 98 to North Crystal Lake Drive

Meeting Name: ELA Meeting 3

Date: February 19, 2019

Location: D1- HQ

Attendees:

Patrick Bateman (FDOT), Sergio Figueroa (FDOT), Nicole Monies (FDOT), Bill Hartmann (FDOT), Lauren Peters (FDOT), Phil Irvén (Polk County), Matt Dockins (RKK), Michael Garau (Kimley-Horn), Gretchen Suárez-Peña (PGA)

The following notes reflect our understanding of the discussions and decisions made at this meeting. If you have any questions, additions, or comments, please contact us. We will consider the minutes to be accurate unless written notice is received within 5 working days of the date issued.

Meeting Minutes

Gretchen Suárez-Peña started the meeting by directing Michael Garau to address the changes in the analyzed typical section. Michael stated that at this time the buffered bike lanes typical section is the preferred alternative that is being considered for the PD&E study. Gretchen then went on to provide an overview of what was discussed in the second ELA meeting. The Banana Lake, or southern basin, was not able to secure a regional alternative. The City of Lakeland Parcel originally pursued as an option was fatally flawed for its use as a maintenance facility for Lakeland Electric. The joint-use option with the US 98 project at the time of the second ELA meeting also did not seem to be tenable. For the northern basin, which is part of the Saddle Creek basin and discharges into Crystal Lake, the preferred alternative is to use the Polk County pond. Located north of Crystal Lake. This improvement was an alternative recommended in the City of Lakeland TMDL report. It was discussed that a maintenance agreement between the County, FDOT be discussed now, within the PD&E study as there will be additional water going to the Polk County Pond. The study also plans to recommend improvements at the southern ditch, located between S. Crystal Lake Drive and Skyview Drive, this ditch discharges directly into Crystal Lake. These improvements will help the overall water quality for Crystal Lake.

Since the last ELA meeting, PD&E staff coordinated with the US 98 design team further. The US 98 team plans to modify pond 2A currently permitted by FDOT. The permitted pond provides the treatment volume of 0.73 ac-ft for the basin that it treats. The US 98 project plans to accommodate an additional 0.38 ac-ft of volume. The US 98 project only needs about 0.10 ac-ft of volume. This leaves an additional 0.28 ac-ft of available volume for our Combee project. This is very close to the treatment volume needed for the Combee Road southern basin. The US 98 Project is planning to over attenuate as it will be attenuating for all the directly connected impervious area in the project. This includes existing pavement that is currently not being attenuated. This over attenuation can also help in the attenuation needs for Combee Road. The US 98 design team plans to document the potential for compensatory treatment in the Combee Road project within their document as does the PD&E staff within the Combee Road PSR.



However, due to the timing of the construction and permitting of this project, the PD&E staff has is considering traditional potential pond sites adjacent to the study corridor. Two approaches, US 98 pond and traditional pond sites, were presented to the South West Florida Water Management District (SWFWMD) staff at a preapplication meeting conducted on February 6th. SWFWMD staff indicated that for the compensatory treatment approach to work, the volume of compensatory treatment and attenuation within Pond 2A should not have been utilized for other parts of the US 98 project. SWFWMD stated that this project would require an individual permit. There is an existing general permit for this corridor. A letter of update on this general permit along with Crystal Lake pond permit and US 98 permit would be needed during the design phase and permit application process for this project.

The potential pond sites being considered for this project are SMF 1-A, SMF 1-B, and SMF 1-C. SMF 1-A is located on the Ridley USA property located slightly northwest of the Combee Road and US 98 intersection. SMF 1-B is located on several parcels south of Maine Ave: one owned by the FDOT and the other four are part of two residences. SMF 1-C is located behind a business east of the corridor just south of the CSX railway. Please see the attached exhibit for a visual of these pond sites. Currently right-of-way costs are being estimated for these parcels.

Sergio mentioned that the Pond Siting Report (PSR) should address all the coordination and potential for use of the US 98 pond for compensatory treatment, but that the worst-case scenario should be addressed in the PSR. This worst-case scenario includes all the potential costs and concerns associated with the pond sites. SMF 1-A needs to be sensitive to the needs of CSX railroad and the piping and maintenance along County streets. SMF 1-B is a relocation issue with residences that will need to be addressed if it comes out as the preferred alternative. SMF 1-C may have hydraulic issues, as it is towards the northern end of the project. This will all need to be provided in the pond siting matrix.

Action Items

- PD&E staff will set-up a meeting with FDOT and Polk County maintenance to coordinate an agreement involving the following:
 - Polk County Pond north of Crystal Lake
 - Intersection and connection of Atlantic Avenue, Eaton Avenue and Combee Road
 - Discuss potential easement for piping on Lyonal Drive and McJunkin Road for SMF 1-A option
 - Looking for trade-offs with the County
 - Those invited to the meeting should include Sharon Harris, Brent Setchell, Amy Perez, Sergio Figueroa, Patrick Bateman, Lauren Peters, Nicole Monies, Lavinia Toole, Marke Barnes, Jay Jarvis and Phil Irven, along with the PD&E study team.
- Consider worst-case scenario in PSR include all costs including right-of-way, fencing, jack and bore option under CSX railway, piping etc
- Investigate who maintains the rail spur on the Ridley USA property

Exhibits from the Meeting and the Sign-In sheet are attached to these minutes.

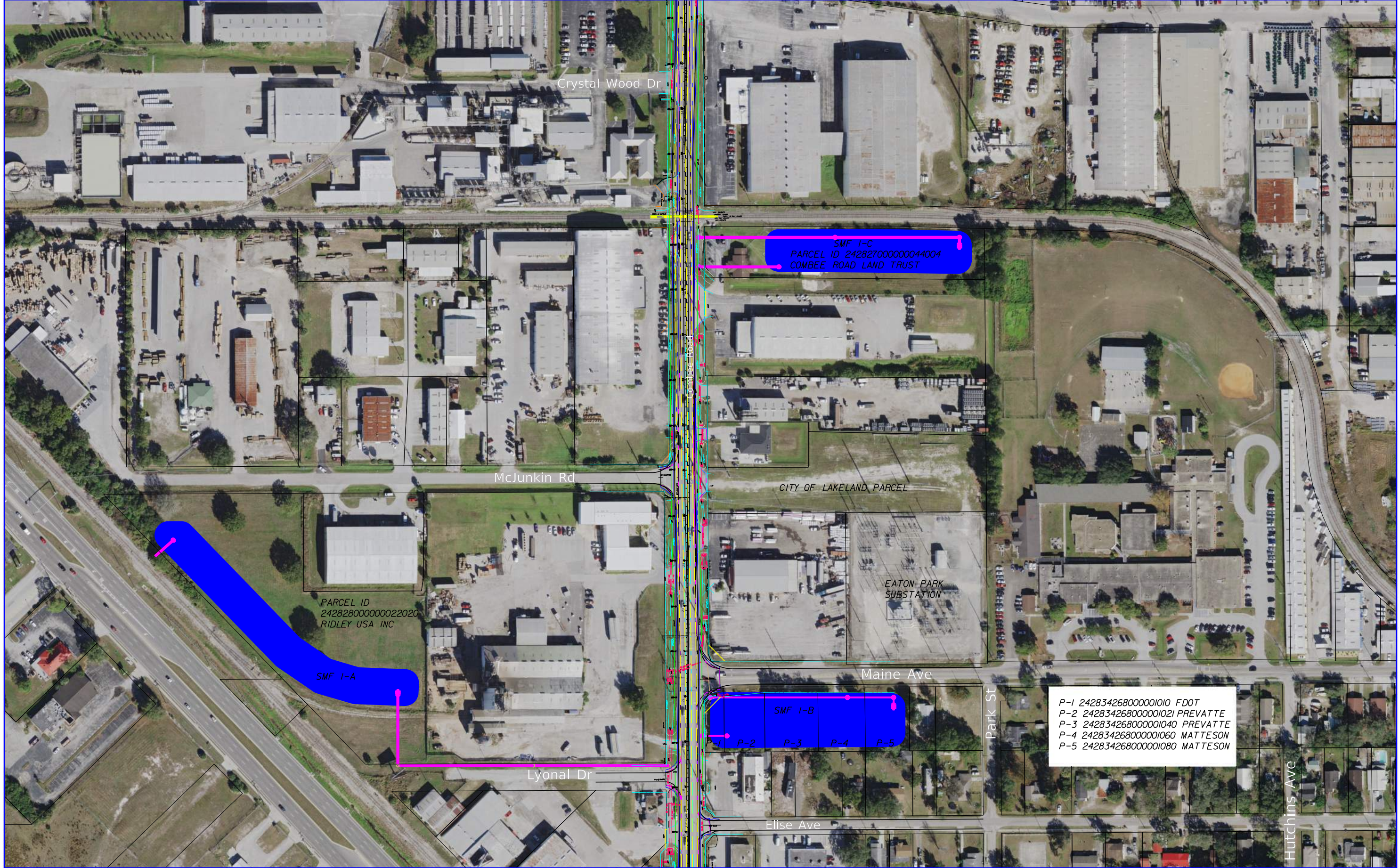


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MEETING MINUTES

ATTACHMENTS:

Potential Pond Site Exhibits
Sign-in Sheet



SMF I-C
 PARCEL ID 242827000000044004
 COMBEE ROAD LAND TRUST

PARCEL ID
 24282800000022020
 RIDLEY USA INC

SMF I-A

SMF I-B
 P-1 P-2 P-3 P-4 P-5

P-1 242834268000001010 FDOT
 P-2 242834268000001021 PREVATTE
 P-3 242834268000001040 PREVATTE
 P-4 242834268000001060 MATTESON
 P-5 242834268000001080 MATTESON

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PATEL, GREENE & ASSOCIATES, PLLC
 215 East Main Street
 Bartow, Florida 33830
 Certificate of Authorization No. 29562
 Gretchen L. Suarez-Pena, PE No. 79282

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 659	POLK	440274-1-22-01

COMBEE ROAD
POND ALTERNATIVES

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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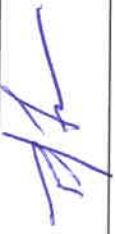



Project Number: 440274-1-22-01
Project Description: SR 659 Combee Road from US 98 to Skyview Drive
Meeting Name: FDOT ELA Meeting 3
Date/Time: February 19, 2019 8:30am
Location: D1- HQ

INITIAL	NAME	REPRESENTING	PHONE NUMBER	EMAIL ADDRESS
PBB	Patrick Bateman	FDOT	863-519-2792	Patrick.Bateman@dot.state.fl.us
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	Lavenia Toole	FDOT Maintenance	863-519-4310	lavenia.toole@dot.state.fl.us



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	Jay Patel	Inwood	407-971-8850	jpatel@inwoodinc.com
	Matt Dockins	RKK	813-386-1460	mdockins@rkk.com
	Michael Garau	Kimley-Horn	407-427-1618	Michael.Garau@kimley-horn.com
	Gretchen Suarez-Pena	PGA	863-533-7317 ext. 202	Gretchen.Suarez-Pena@patelgreene.com





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Meeting Minutes

Project: FPID 440274-1-22-01

Description: SR 659 Combee Road from US 98 to North Crystal Lake Drive PD&E

Meeting: SWFWMD Pre-application Meeting

Date/Time: 2/6/19 @ 2:00 pm

Location: SWFWMD Tampa Service Office

Attendees:

Brent Setchell (FDOT), Sergio Figueroa (FDOT), Nicole Monies (FDOT), Al Gagne (SWFWMD), Dave Kramer (SWFWMD), Gretchen Suarez-Pena (PGA)

Introductions / Project Overview

Brent Setchell had everyone introduce themselves. Gretchen Suarez-Pena then described the project. This is a Project Development and Environmental Study (PD&E) for SR 659 Combee Road from US 98 to North Crystal Lake Drive. The proposed improvements include adding a center turn lane and pedestrian features. The proposed typical section is comprised of two 11-foot travel lanes, one 13-foot two-lane left turn median, a 7-foot buffered bike lane on each side and a 6-foot sidewalk on each side. The existing drainage basins are Banana Lake to the South from Kiwanis Avenue to US 98 and Saddle Creek to the north with the corridor discharging primarily to Crystal Lake. The new impervious area will need to be addressed based on SWFWMD water quality and water quantity requirements.

Existing Permitting

Gretchen went on to state that there are several existing permits along the corridor. They include: Combee Road drainage improvements ERP 4722081 and Polk County Pond north of Crystal Lake ERP 4010422. Likewise, the Municipal Separate Storm Sewer Systems (MS4) permit has the regional stakeholders including FDOT, Polk County and City of Lakeland. The FEMA FIRM panel is 12105C0320G with effective date 12-22-2016. The main flood zone is AE with elevation 139.1 in and around Crystal Lake. The main wetland is also Crystal Lake and across from Crystal Lake at the northeast corner of the intersection of Combee Road and Skyview Drive. There are no protected species or impacts to protected species expected based on the improvements.

The drainage approach for this study was to first find regional alternatives for the water quality and water attenuation. For this study, Environmental Look Around (ELA) meetings were conducted to accomplish this. For the northern basin, Saddle Creek, basin the ELA meetings have rendered a regional alternative to provide the water quality treatment and attenuation in the Polk County Pond located in the northern area of Crystal Lake. This was recommended by the Crystal Lake TMDL Implementation Final report by the City of Lakeland. This option will retrofit the closed flume inlets that discharge directly to Crystal Lake, into curb inlets and pipe runoff to the pond area on the north side of the lake. Likewise, there is a southern ditch adjacent to Crystal Lake that will be recommended to be retrofitted as a linear treatment pond. There is treatment and attenuation volume available within this linear pond.

For the southern basin, regional approaches have been more difficult to secure. The first option considered was to use a parcel that is owned by the City of Lakeland. This parcel is currently used by Lakeland Electric to access the Eaton Park sub-station. In coordinating with Lakeland Electric, it was



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Meeting Minutes

determined that this parcel was not feasible for a pond, as the equipment needed to access the site would need most of the parcel. A second option was to incorporate innovative low impact design (LID) alternatives for the project to address water quality. However, the maintenance for these alternatives can be cumbersome and the funding from Polk County, City of Lakeland or FDOT is not adequate to address the maintenance needs for these alternatives. Therefore, those options were eliminated.

Another option considered during the ELA meetings, was to provide a joint-use pond to be used by both the Combee Road project and a project currently in design along US 98 from Edgewood Drive to Main Street. The US 98 project is undergoing its own Pond Siting Report. The preferred pond site for this project is to modify the existing permitted FDOT pond 2A, which was permitted under the US 98 South of Brooks Street to South of Edgewood Drive North road project under SWFWMD permit number 44019176.001. The permitted pond provides the treatment volume of 0.73 ac-ft for the basin that it treats. The US 98 project plans to accommodate an additional 0.38 ac-ft of volume. The US 98 project only needs about 0.10 ac-ft of volume. This leaves an additional 0.28 ac-ft of available volume for our Combee project. This is very close to the treatment volume needed for the Combee Road southern basin. The US 98 Project is planning to over attenuate as it will be attenuating for all the directly connected impervious area in the project. This includes existing pavement that is currently not being attenuated. This over attenuation can also help in the attenuation needs for Combee Road.

If the joint-use option with the US 98 project is not available for the treatment volume, the final option is to consider traditional pond sites to accommodate the treatment and attenuation volume for the project. Pond locations are limited, and at this time are in the Ridley USA property that is adjacent to the CSX right-of-way, which poses a constructability problem. Other sites may relocate residences or a business and are not favorable.

The preferred alternative is currently is to collaborate with the US 98 project and utilize their extra treatment and attenuation as compensatory for this project.

Al Gagne and Dave Kramer said that SWFWMD would agree with this compensatory approach linked to the US 98 project. It would depend on the timing of the permitting and construction of the US 98 project. The US 98 project would need to be constructed and permitted first. Also, the volume in that project used for Combee Road should not be spoken for as compensatory for some other part of the project.

For permitting, the Combee Road project would submit an Individual Permit application that could be placed under the existing Combee Road Environmental Resource Permit (ERP) number 4722081. A letter of minor modification or administrative authorization will be added to the US 98 permit and the Crystal Lake pond ERP 4010422 for the treatment and attenuation volumes to be utilized from their permitted stormwater management facilities.

All of this will be documented in the PD&E drainage documents.