

Utilities Department

Wekiwa Springs Septic to Sewer Program Update

March 9, 2021



Presentation Outline

- Background
- Phase 1
- Phase 2
- Next Steps



Presentation Outline

- **Background**
- Phase 1
- Phase 2
- Next Steps

Background

- The Wekiva River and Wekiwa Springs are impaired by nutrients
 - Phosphorus
 - Nitrogen
- Excess nutrients cause excess algae
 - Fish kills
 - Reduction of diversity, plants and animals





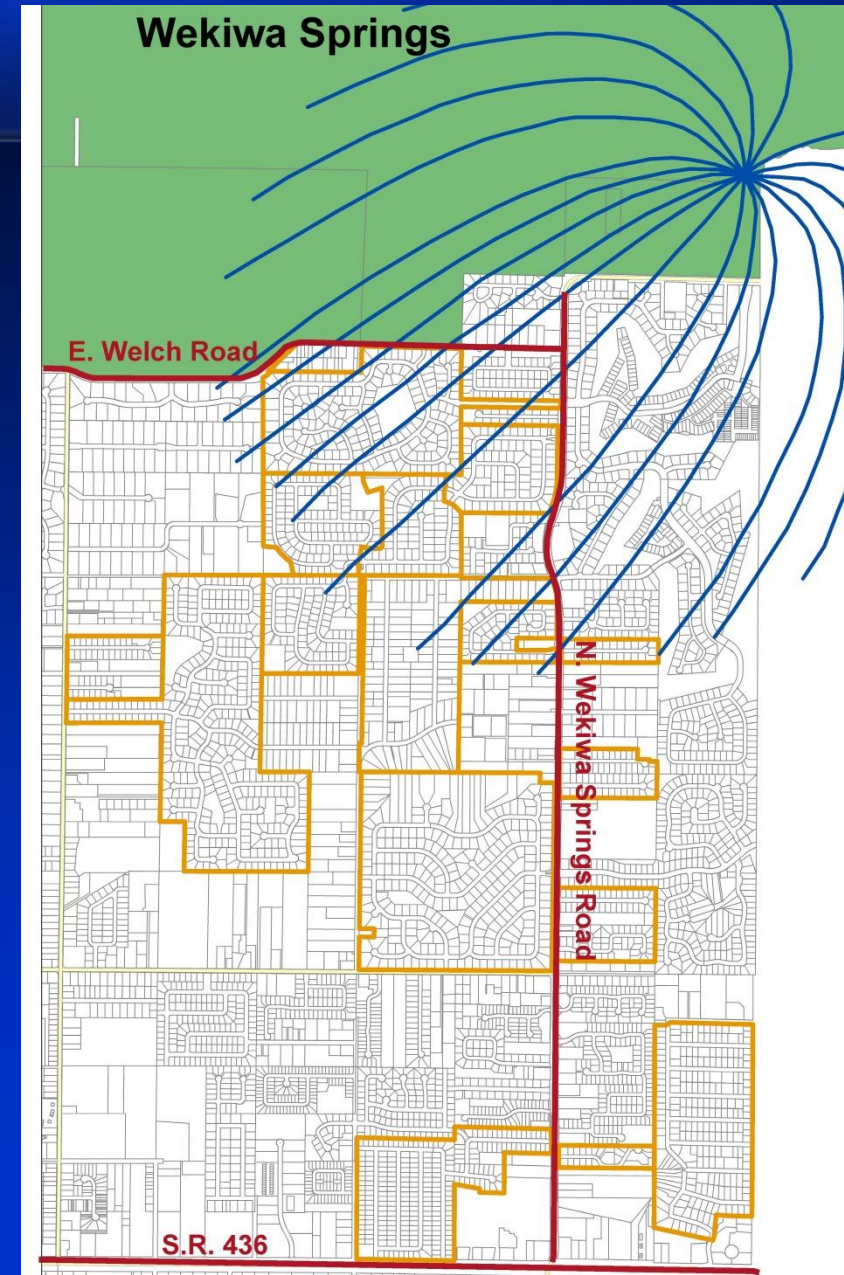
Background

- **In 2016, the Florida Springs and Aquifer Protection Act required an update to the Wekiwa Springs and Rock Springs Basin Management Action Plan (BMAP)**
 - **Requires specific nutrient load reductions within 5, 10 and 15 years of BMAP**
 - Identified septic tanks as the source of 29% of nitrogen in the springs
 - 18,000 septic tanks within Orange County Utilities' service area inside the Priority Focus Area (PFA)
- **Board of County Commissioners work sessions on 4/21/2020 and 10/13/2020**
 - **Presented a 15 year program to replace septic tanks closest to Wekiwa Springs within the PFA**

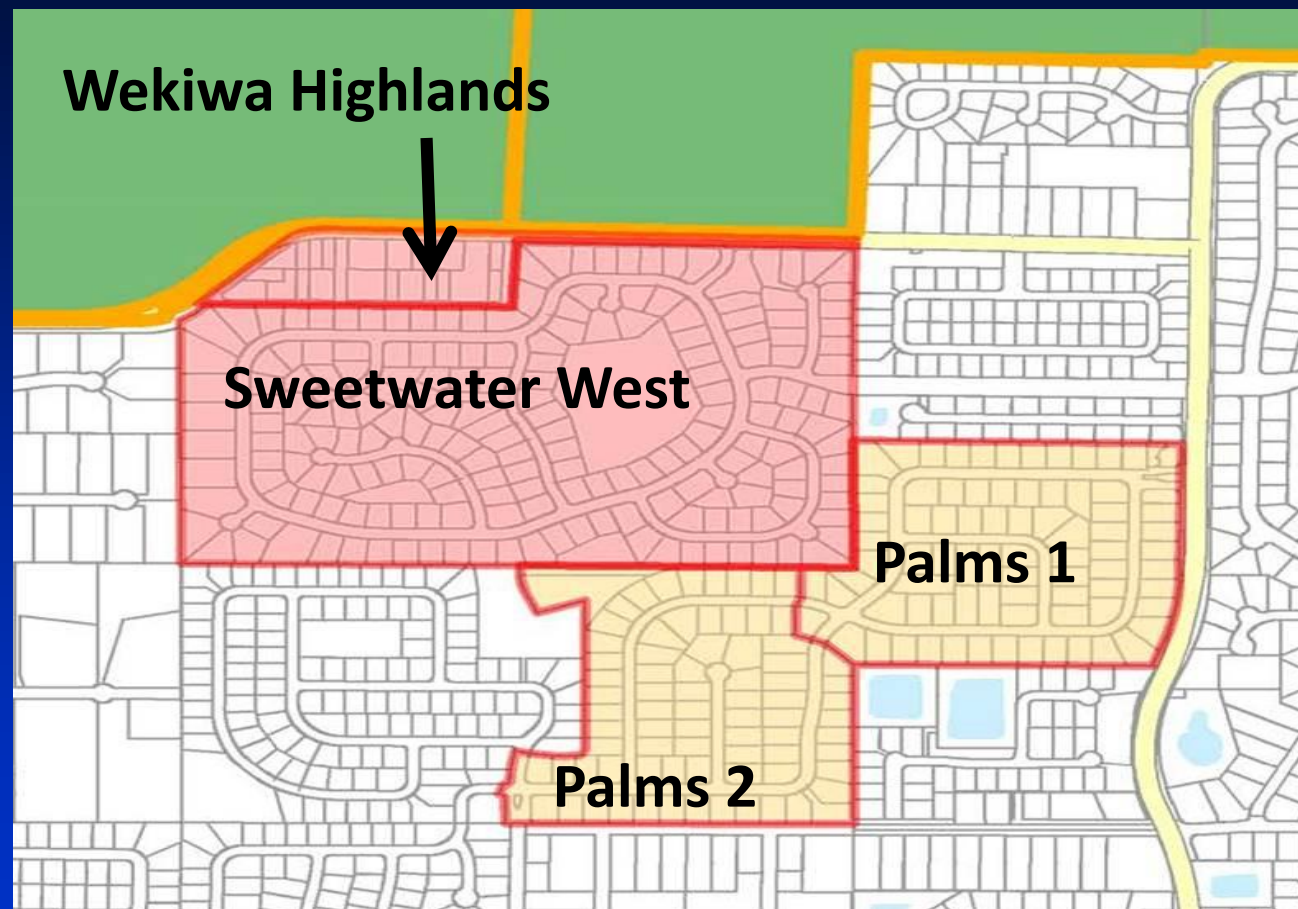


Background

- Eliminate septic tanks in 17 neighborhoods closest to Wekiwa Springs
 - 2,057 septic tanks
 - 15 year plan
 - \$123 million



Background



- Four neighborhoods closest to the Wekiwa Springs
- Phase 1 – 211 parcels; \$10.08M
 - Wekiwa Highlands
 - Sweetwater West
- Phase 2 – 154 parcels; \$9.24M
 - Palms 1
 - Palms 2

Phase 1

Phase 2

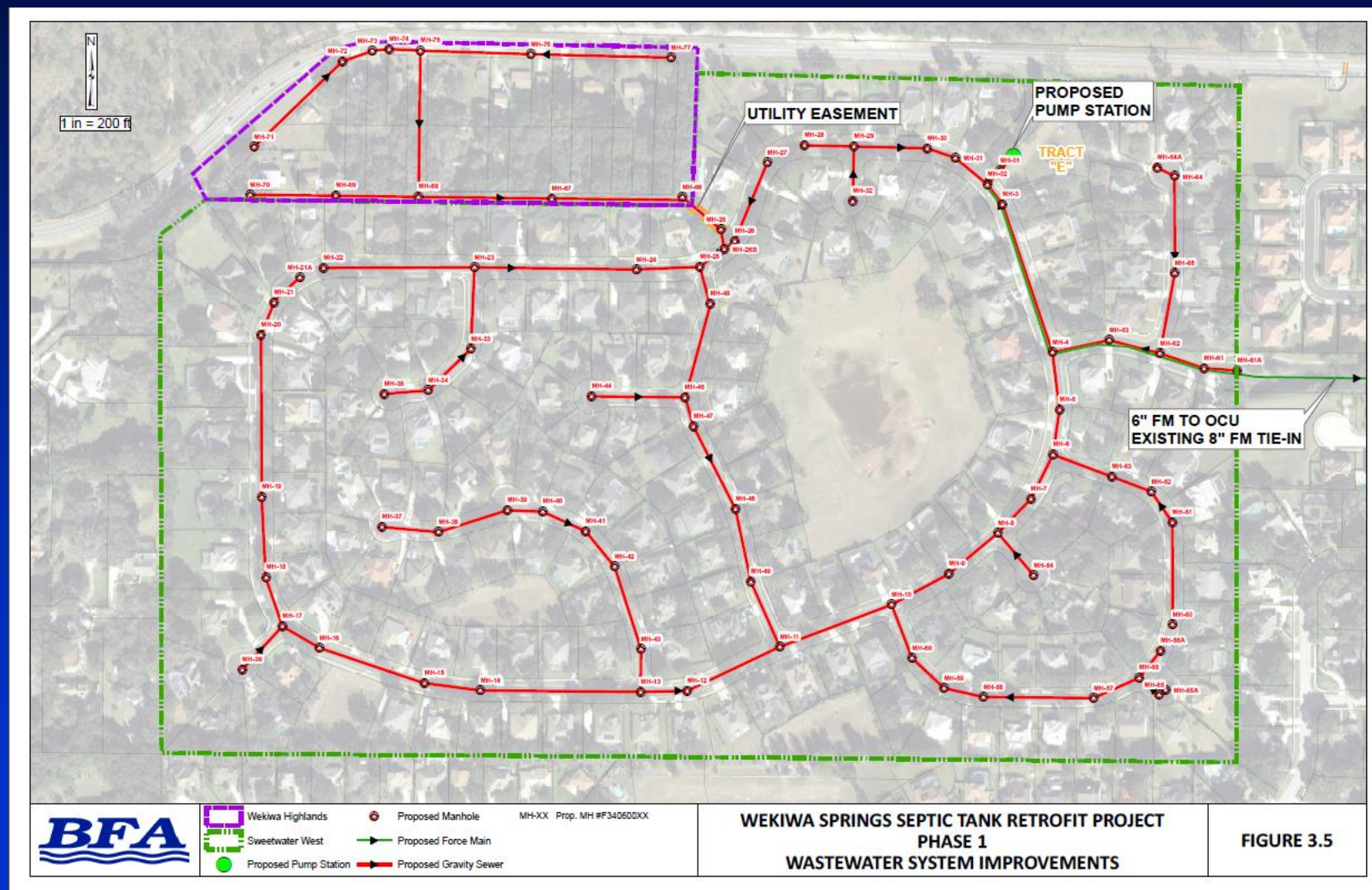


Presentation Outline

- Background
- **Phase 1**
- Phase 2
- Next Steps

Phase 1

■ Phase 1 Central Sewer Layout

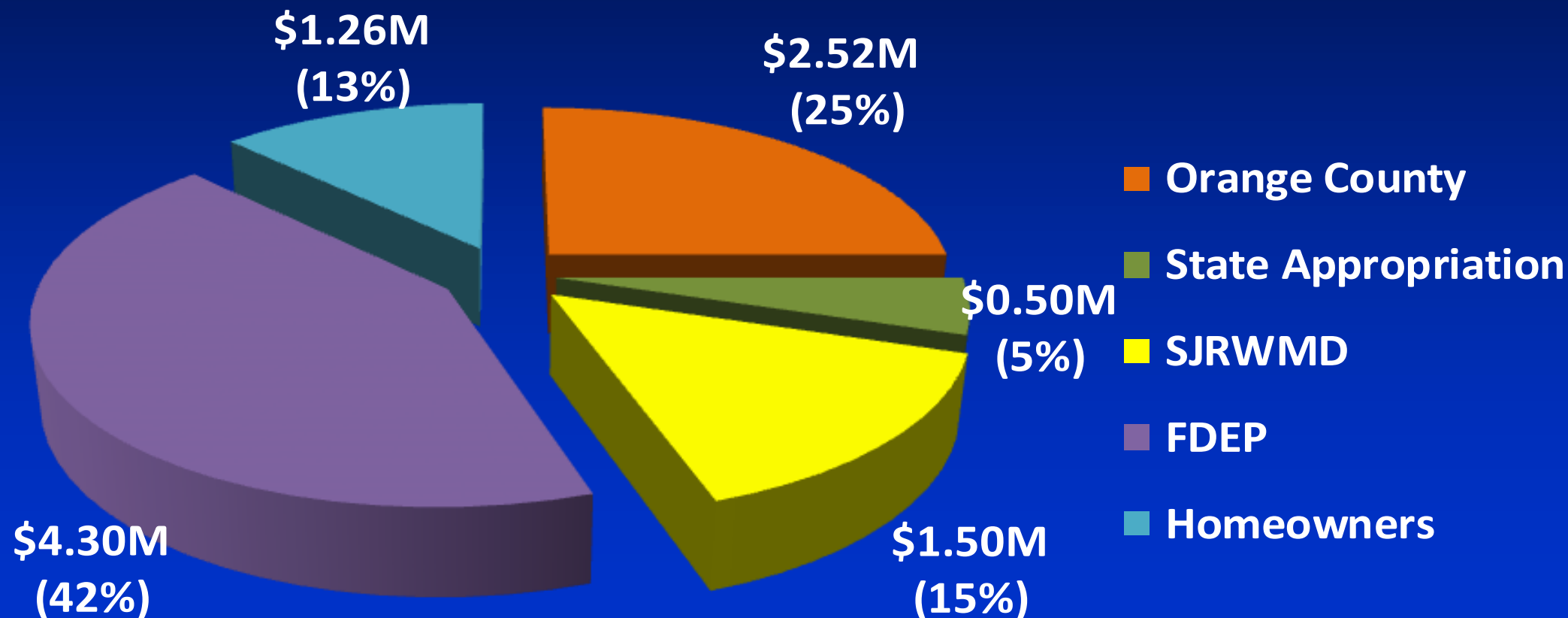




WEKIWA SPRINGS SEPTIC TANK RETROFIT PROJECT
Phase 1
WATER MAIN IMPROVEMENTS

FIGURE 3.6

Cost: \$10.08 Million





Phase 1

- MSBU Balloting Results

- 163 out of 211 voted “YES” (77%) > 67% required
- \$6,000 per parcel (paid by homeowner)
- Financed over a 10 year period
 - \$702.30 annual assessment
 - 2.9% interest rate

- Two Upcoming Public Hearings

- Establishment of MSBU
- Budget hearing (September)



Phase 1

- **Design**

- 100% Design

December 2020 – Complete

- **Construction**

- Bid Advertised

January 2021

- BCC Contract Award

May 2021

- Start

June 2021

- Completion

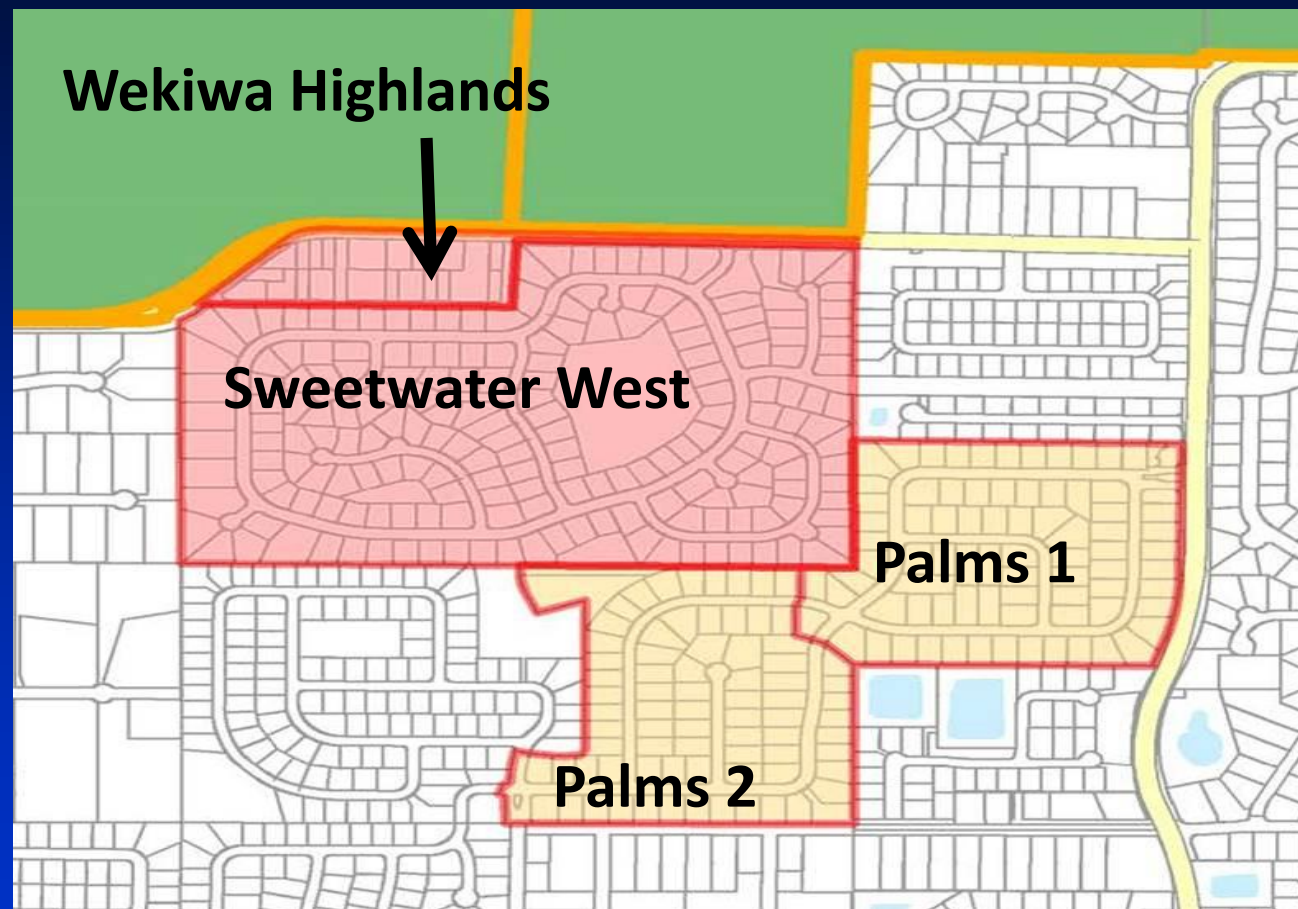
September 2022



Presentation Outline

- Background
- Phase 1
- **Phase 2**
- Next Steps

Phase 2

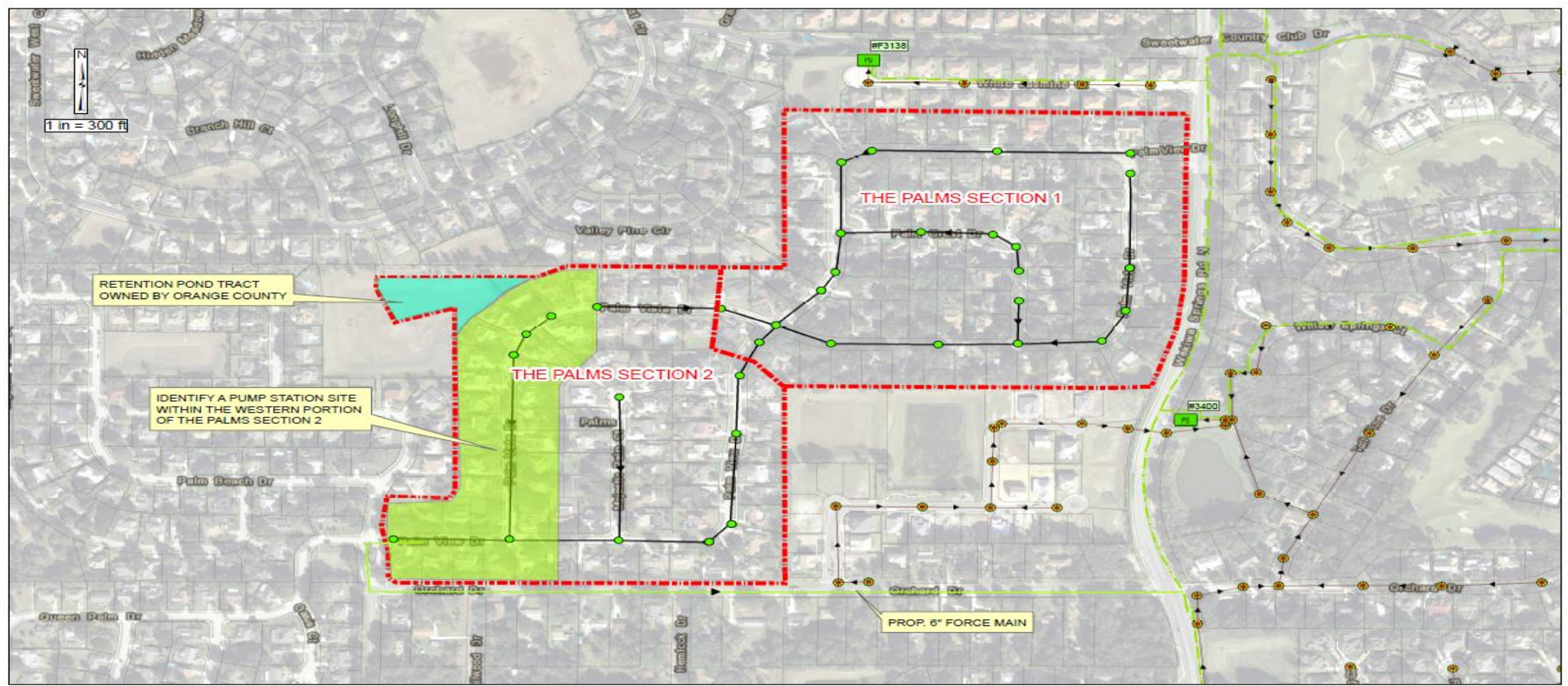


- Phase 2 – 154 parcels
 - Palms 1
 - Palms 2

Phase 1

Phase 2

Phase 2



- | | | | |
|-----------------------|----------------------------|-----------------------|-----------|
| ● Proposed Manholes | --- Wekiwa Springs Phase 2 | ● MANHOLE | □ PARCELS |
| → Proposed Force Main | PS OCU Pump Station | → Existing Force Main | |
| → Proposed Sewer | P Private Pump Station | → Gravity Sewer | |

ORANGE COUNTY UTILITIES
Phase 2 - The Palms Sections 1 and 2

FIGURE 1

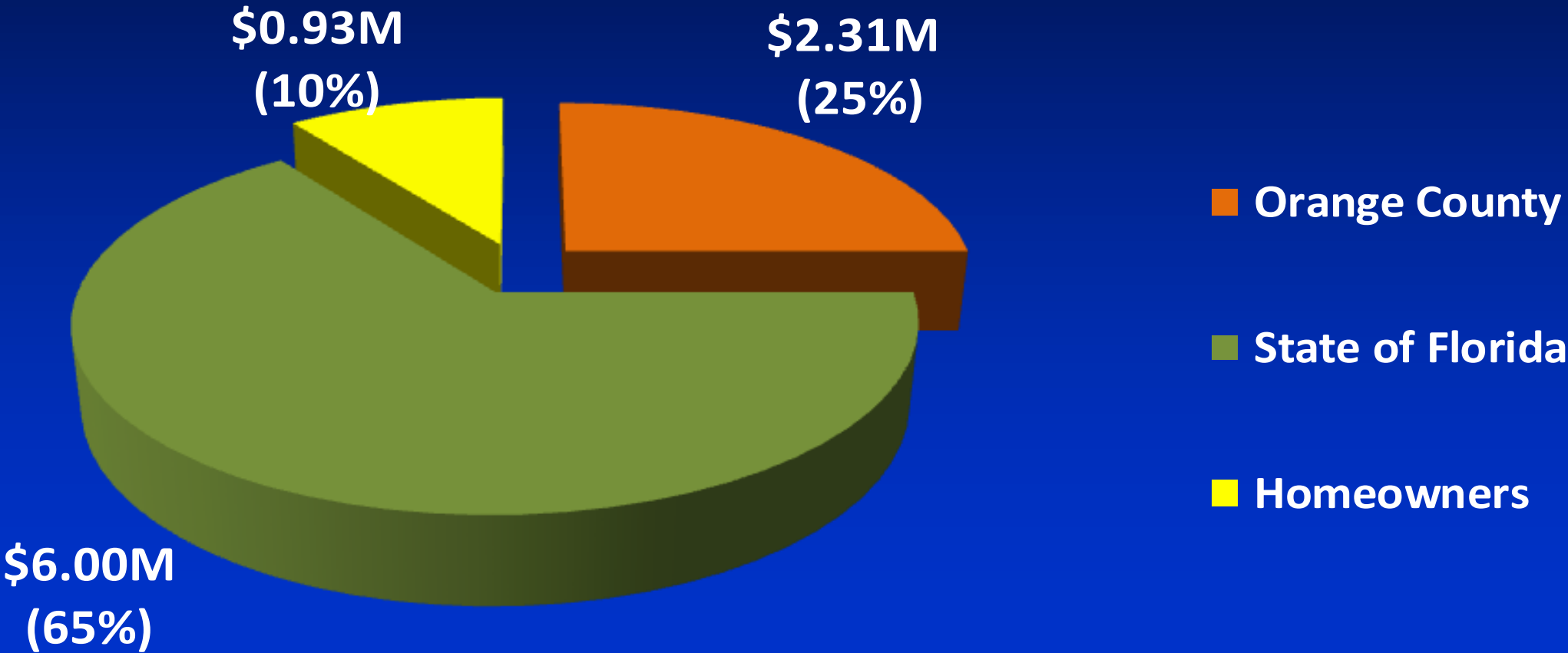


Phase 2

■ Cost Estimate

	Amount
—Design	\$ 950,000
—Other (pre-construction)	\$ 100,000
—Construction	\$ 7,515,000
—Other (post-construction)	\$ 675,000
—TOTAL	\$ 9,240,000

Cost: \$9.24 Million



State Agency Funding

State Agency	FY2021	FY2022	Subtotal
State Budget Appropriations	\$0.50*	\$0	\$0.50
SJRWMD Cost Share	\$1.85	\$0	\$1.85
FDEP Springs Restoration	\$2.075*	\$2.075	\$4.15
TOTALS (BY FISCAL YEAR)	\$3.925	\$2.075	\$6.00

NOTE: All dollar values are in millions

* \$0.5 million included in both state appropriation and FDEP funding



Phase 2

■ Schedule

–Design Start	3/31/2021
–State Funding	8/15/2021
–MSBU Ballot	10/15/2021
–Advertise for Bids	1/15/2022
–Construction Start	6/1/2022
–Construction Complete	9/30/2023



Presentation Outline

- Background
- Phase 1
- Phase 2
- **Next Steps**



Next Steps

- MSBU Public Hearing – Phase 1
- Construction of Phase 1
 - BCC contract award and construction start



Program Update

- Questions?

Utilities Department

Wekiwa Springs Septic to Sewer Program Update

March 9, 2021