



Wastewater • Stormwater

Partnership

www.pinellascounty.org/taskforce

2019 CIP Preview

Presentation Highlights

1. Review of Goals & Action Plan

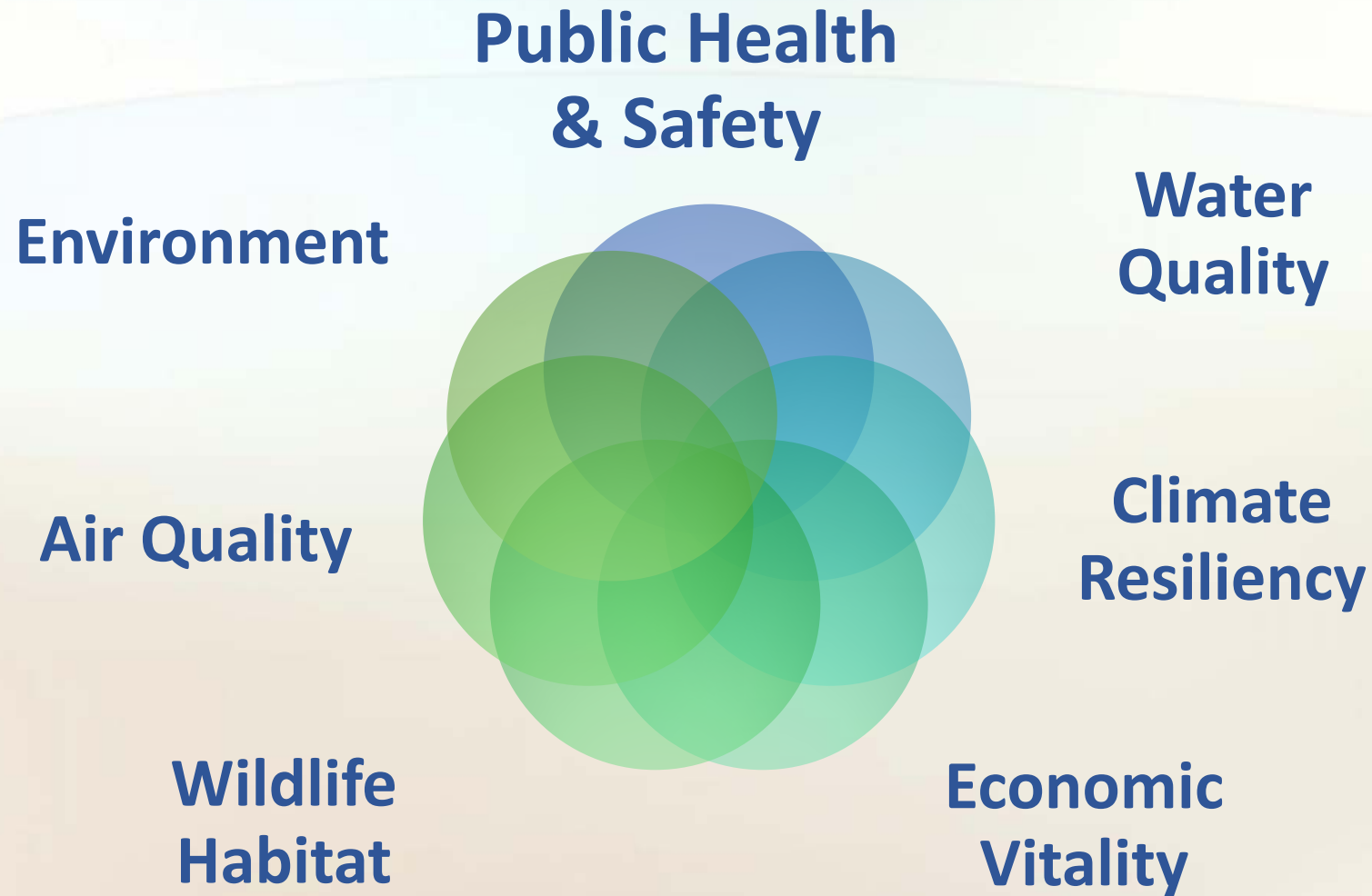
2. Q&A

3. CIP Projects



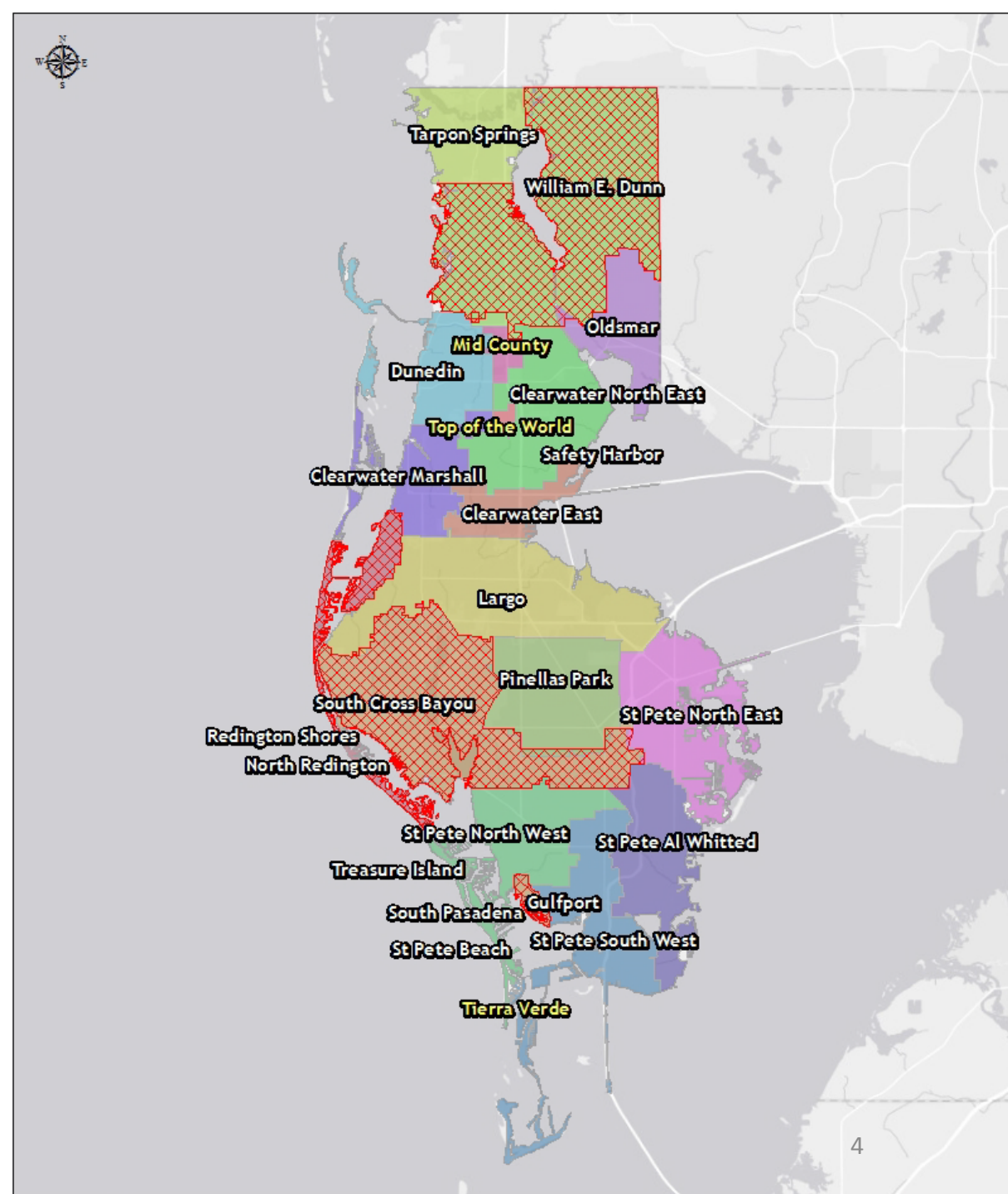
Wastewater • Stormwater
Partnership
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Protecting our Waters is a Shared Priority in Pinellas County



County, City and Private Sewer Systems

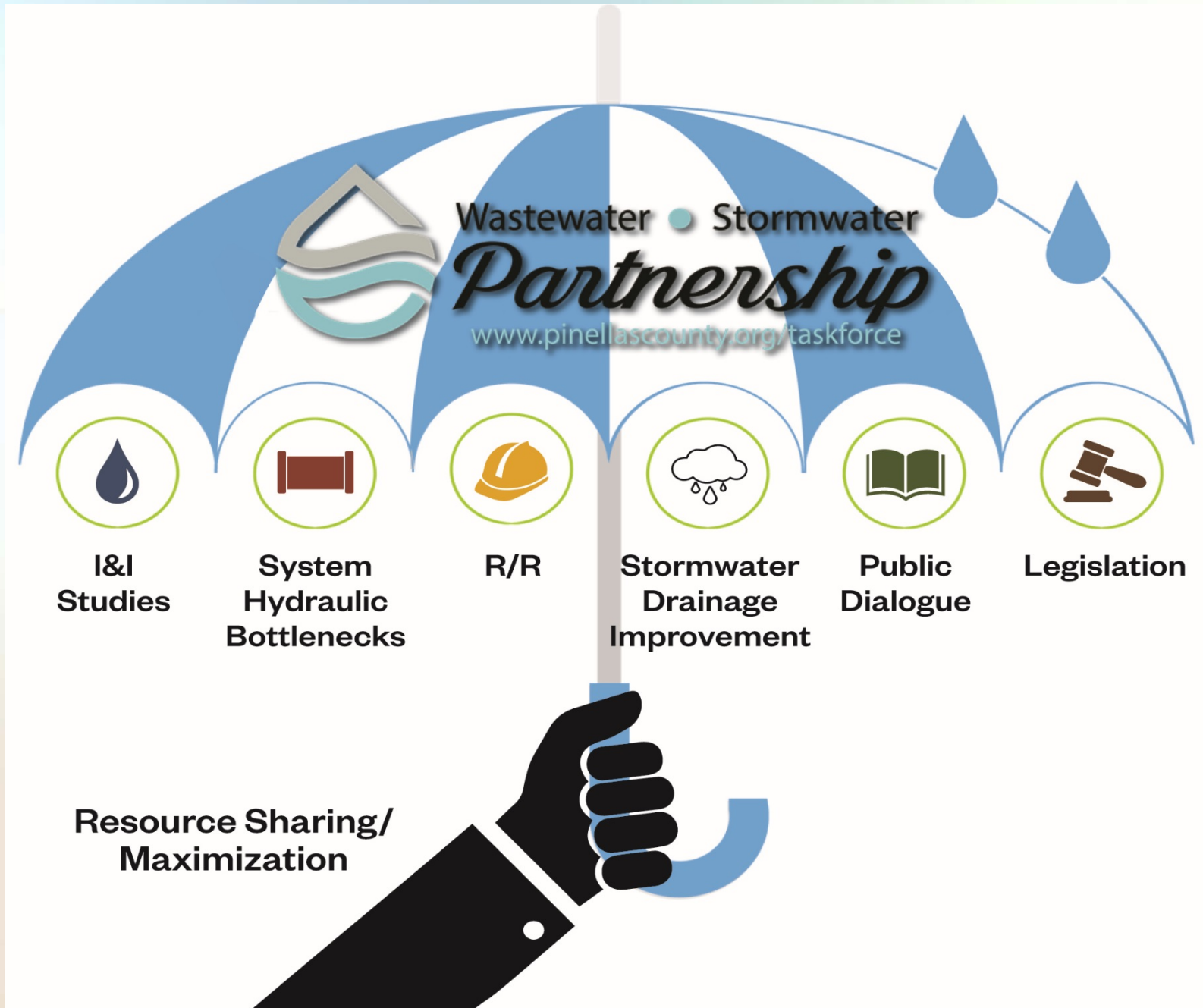
- **24** Municipalities
- **306,495** Sewer Customers
- **12** Wastewater Treatment Plants
- **155 MGD** Total Wastewater Treatment Capacity

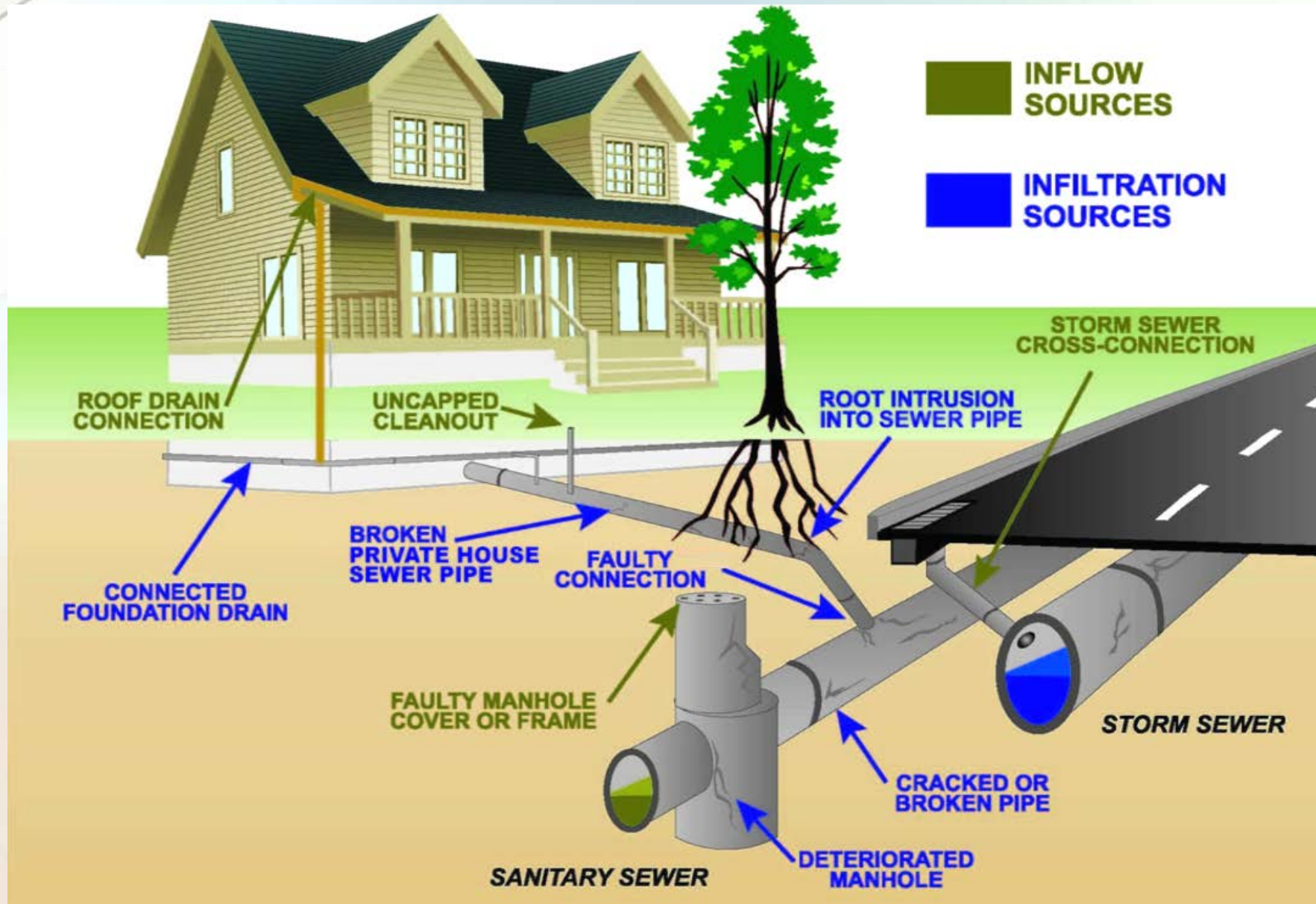


Partnership Goals

- **Avoid and mitigate** spills, overflows and releases of sewage into the environment, particularly water bodies
- **Seek opportunities** to address drainage and stormwater issues that impact the sewer system
- **Increase capacity and resiliency** of collective sewer system and wastewater treatment infrastructure

Action Plan





Projects and Budget FY 19

✓ **123 Funded Projects**

✓ **Wastewater Budget**





Capital Improvements: \$220 M

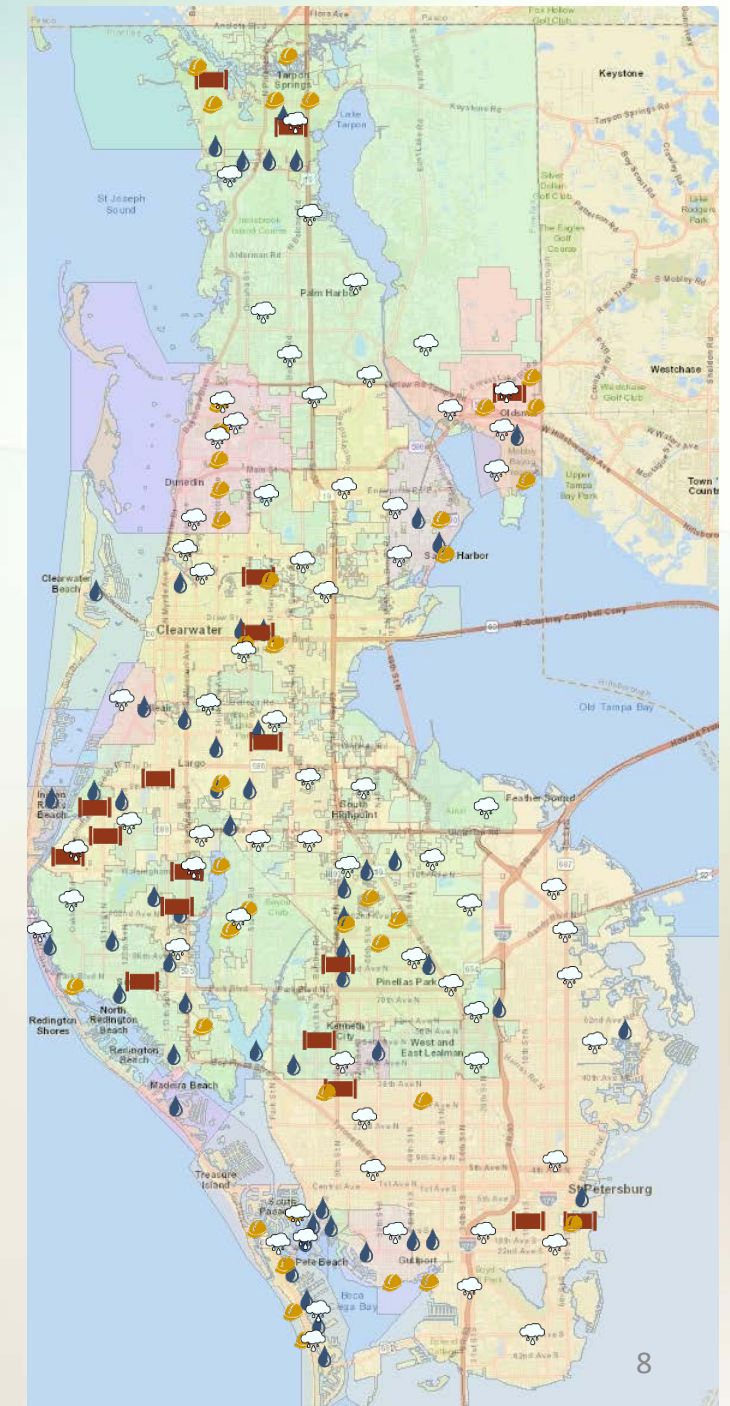
Operating Expenses: \$348 M

✓ **Stormwater Budget**

Capital Improvements: \$25 M

Operating Expenses: \$69 M

	51 - Inflow and Infiltration Studies
	18 - Address System Hydraulic Bottlenecks
	31 - Rehabilitation and Replacement
	23 - Stormwater Drainage Improvements





Reminder!!

Project Specific Information Not Included In Today's Presentations Cannot And Will Not Be Shared At This Event

City of Safety Harbor




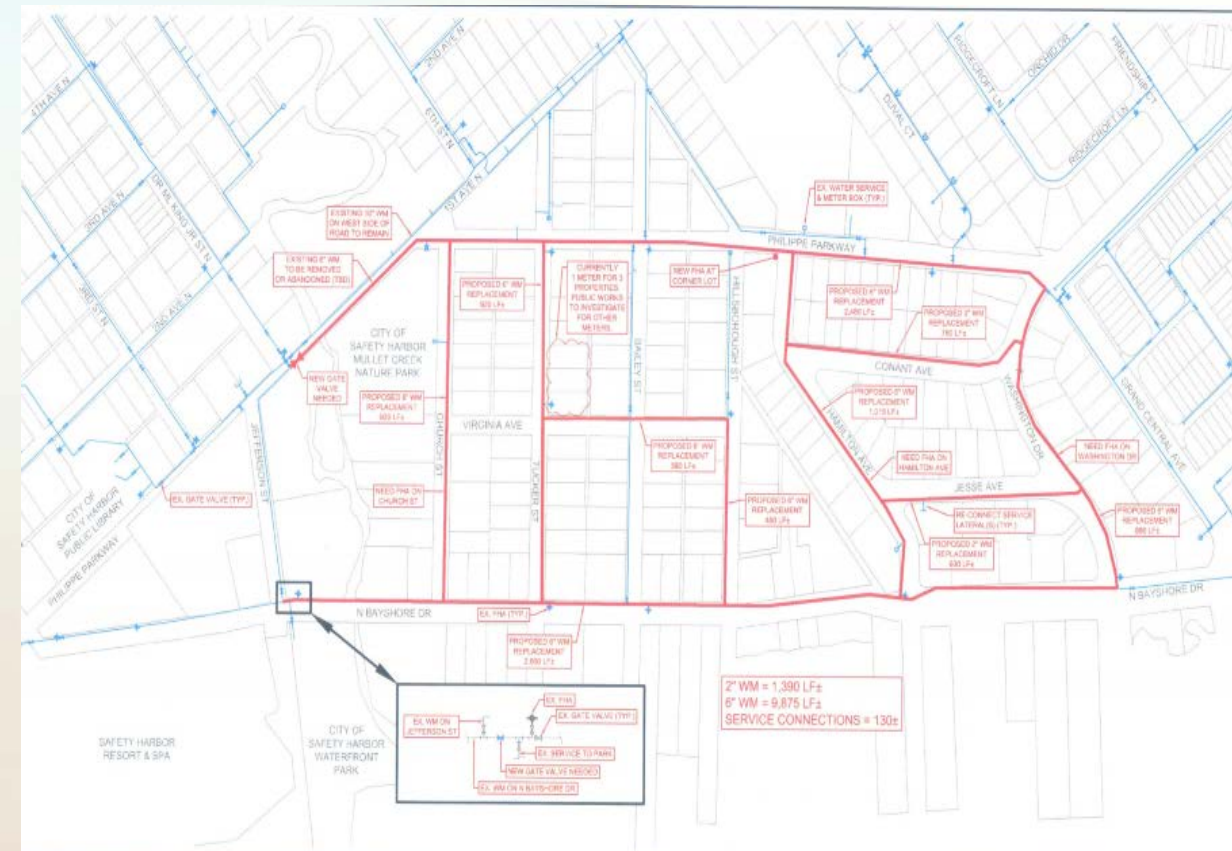
City of Safety Harbor Capital Improvements for 2018/19

- **South Green Springs Reline Sewer Main**
- **Project Timeline:**
 - Proposed start of construction – April 2019
 - Construction time is 6 months
- **Project Cost:**
 - Total Estimated Cost \$1,000,000



City of Safety Harbor Capital Improvements for 2019/20

- **Espirito Santo Springs/Washington Brennan Water Main**
 - **Project Timeline:**
 - Proposed start of construction – December 2019
 - Construction time is 10 months
 - **Project Cost:**
 - Total Estimated Cost \$1,200,000
- 



City of Safety Harbor Capital Improvements for 2019/20

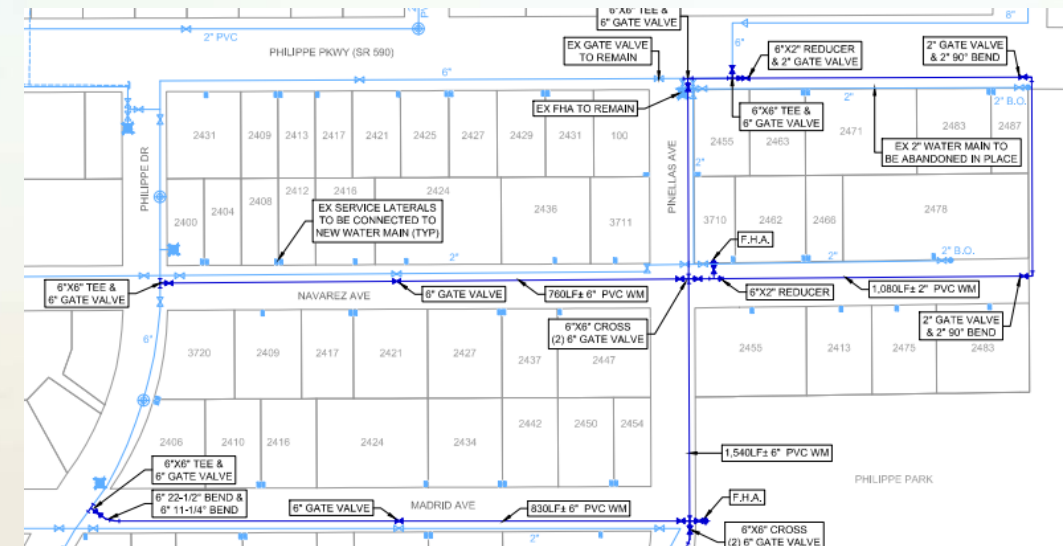
- **Baywoods I, III Sewer Main Relining**
- Project Timeline:
 - Proposed start of construction – December 2019
 - Construction time is 6 months
- Project Cost:
 - Total Estimated Cost \$950,000



City of Safety Harbor Capital Improvements for 2019/20

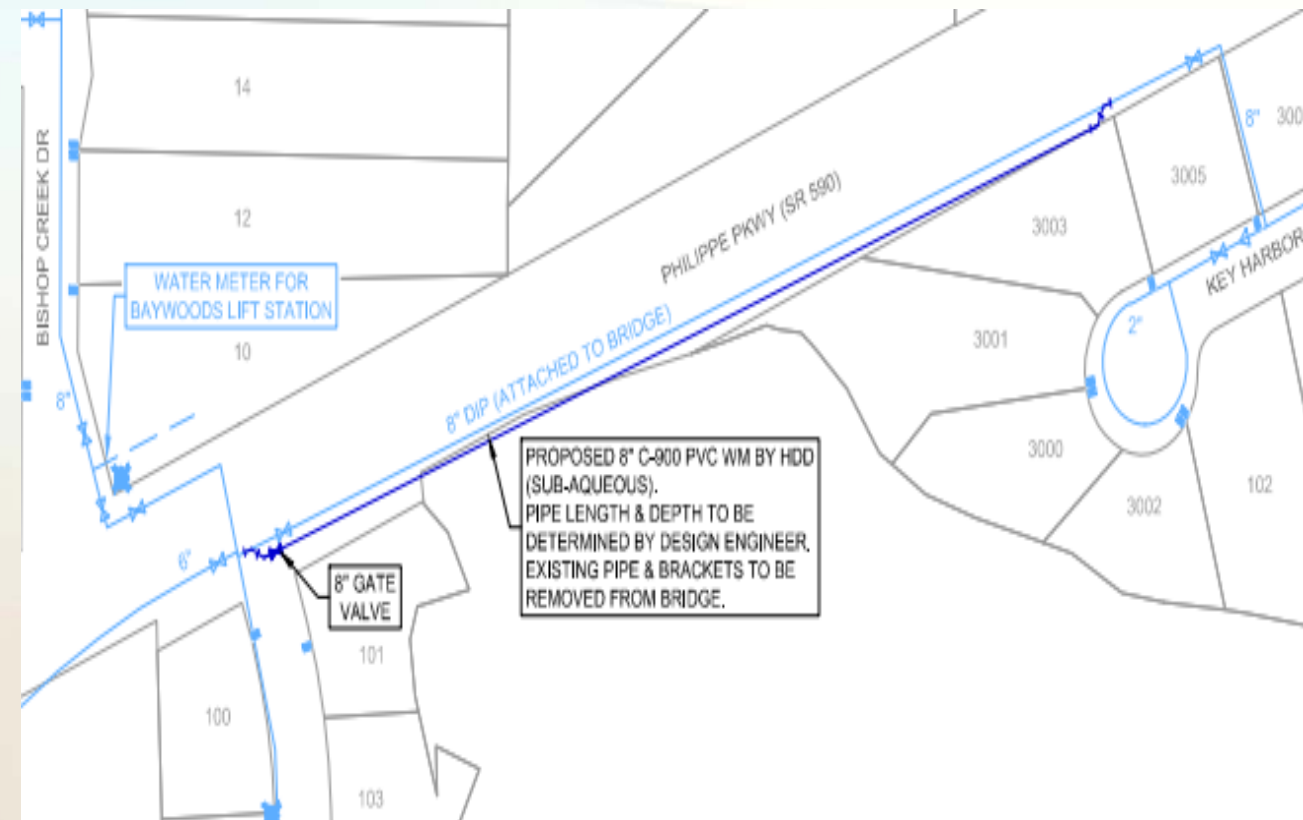
- **DeSoto Estates and Harbor Heights Estates Water Main Replacement**

- **Project Timeline:**
 - Start of Construction – March 2020
 - Construction time is 6 months
- **Project Cost :**
 - Total Estimated Cost\$675,000



City of Safety Harbor Capital Improvements for 2019/20

- **Philippe Pointe Pedestrian Bridge Water Main Replacement**
- Project Timeline:
 - Start of construction – April 2020
 - Construction time is 3 months
- Project Cost:
 - Total Estimated Cost \$280,000

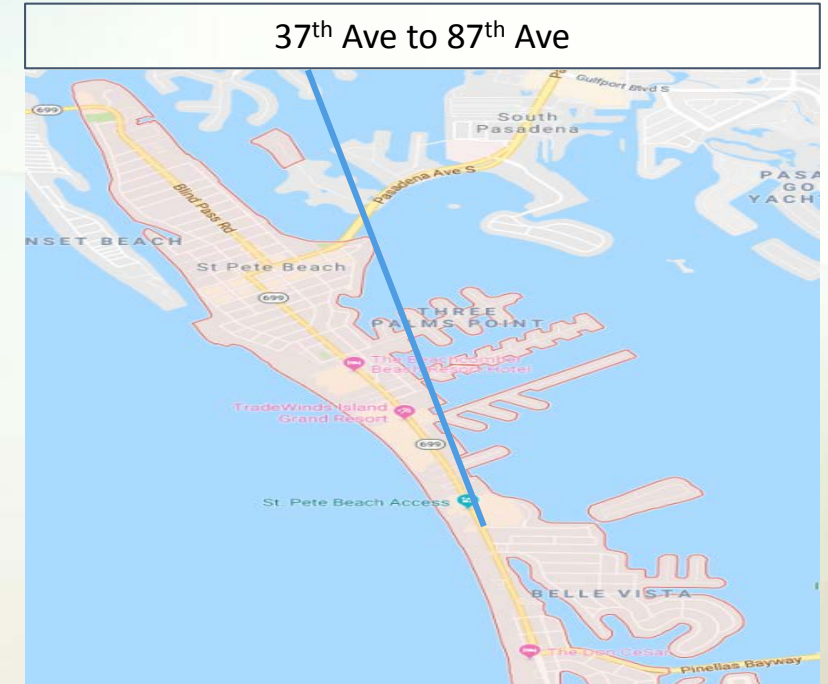


City of St. Pete Beach



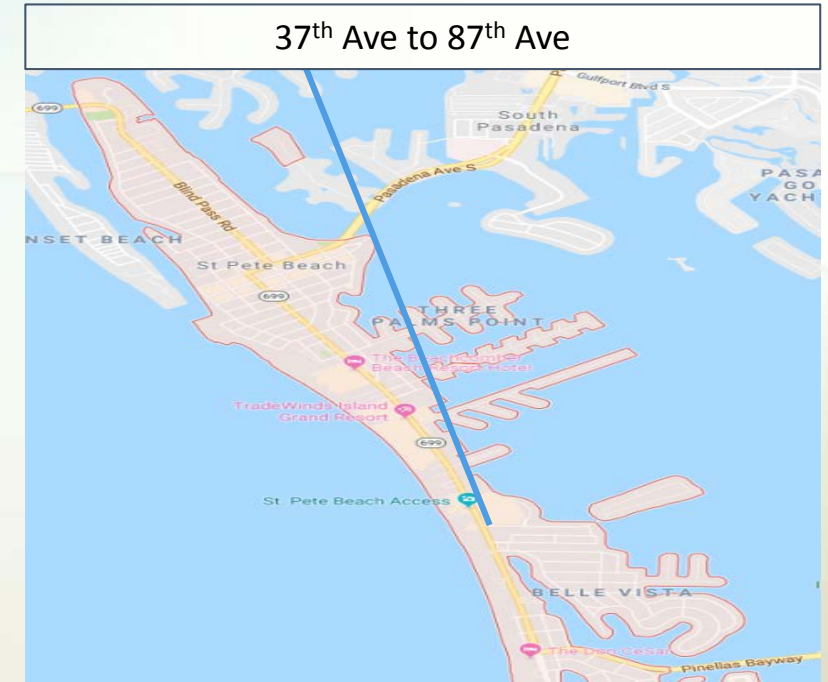
City of St. Pete Beach Capital Improvement

- **Sanitary Sewer Force Main**
- Project Timeline:
 - Final Design July 19
 - Bid Opening Sep 19
- Project Cost:
 - Design Cost: \$800,000
 - Construction Cost: \$12M (Programmed)
- Project Procurement Method:
 - Design by RFQ; Construction by RFQ then Bid by Selected Firms
- Project Delivery Method:
 - Design Bid Build



City of St. Pete Beach Capital Improvement

- **Undergrounding Electrical Service**
- Project Timeline:
 - Final Design Sep 19
 - Construction Oct 19
- Project Cost:
 - Design Cost: \$800,000
 - Construction Cost: \$12M (Programmed)
- Project Procurement Method:
 - Design-build By Piggyback Contract
- Project Delivery Method:
 - Design/Bid/Build

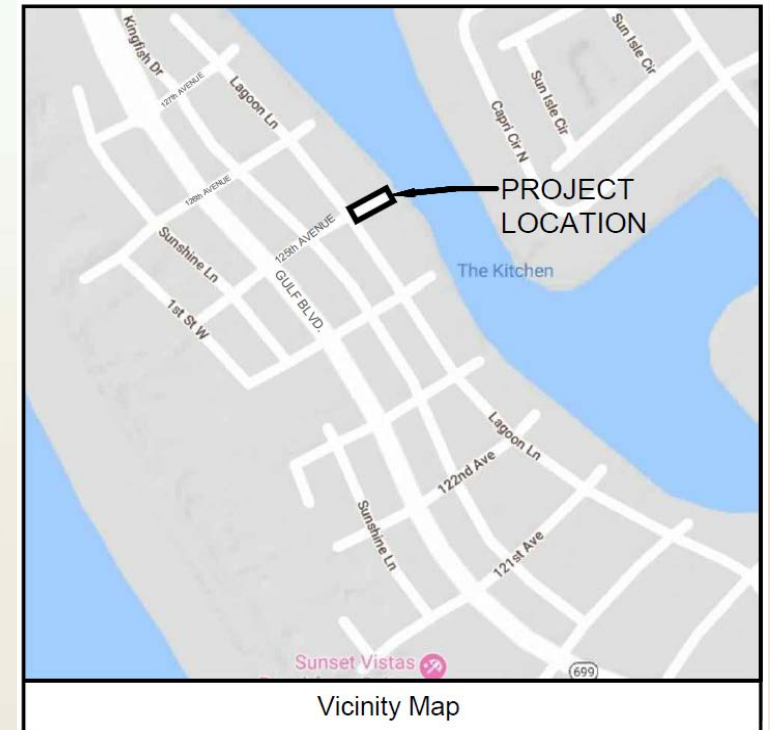


City of Treasure Island



City of Treasure Island Capital Improvement Plan

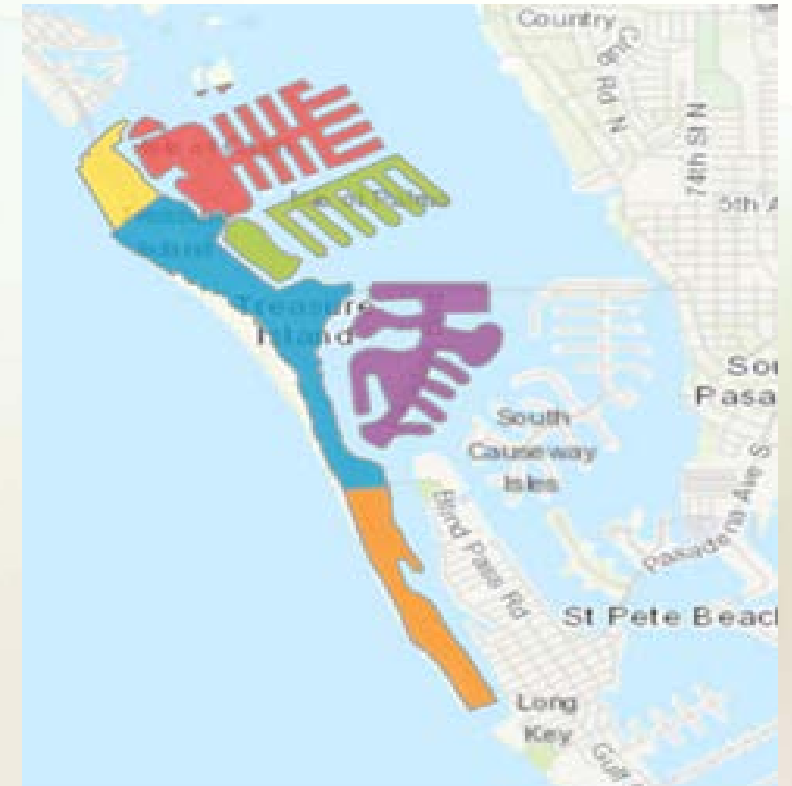
- **Street End Improvements – 5 Locations**
Stormwater Improvements and Street End Beautification.
This is an ongoing project at various locations throughout the City.
- Project Timeline:
 - March 2019 – September 2023
- Project Cost:
 - \$75,000 - Design
 - \$520,000 - Construction
- Project Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method
 - Design/Bid/Build



TREASURE ISLAND, Florida

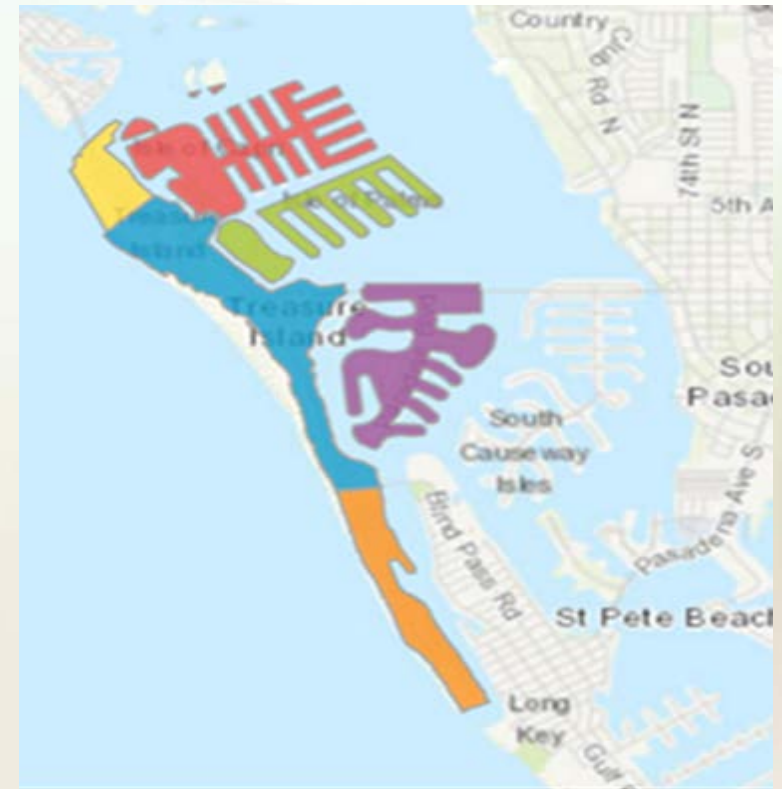
City of Treasure Island Capital Improvement Plan

- **City-Wide Stormwater/Curbing Assessment/Replacement**
Remove and Replace all Miami Curb over 10-year period.
- Project Timeline:
 - January 2019 – September 2023
- Project Cost (5yrs):
 - \$150,000 - Design
 - \$1,100,000 - Construction
- Project Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method:
 - Design/Bid/Build



City of Treasure Island Capital Improvement Plan

- **Stormwater Master Plan: Project Implementation**
A City-Wide Stormwater Assessment and Projects Master Plan is Currently Underway.
- Project Timeline:
 - April 2019 – September 2023
- Project Cost:
 - \$2,435,000 - Design & Construction
- Project Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method:
 - Design/Bid/Build



City of Treasure Island Capital Improvement Plan

Sanitary Sewer Manhole Lining

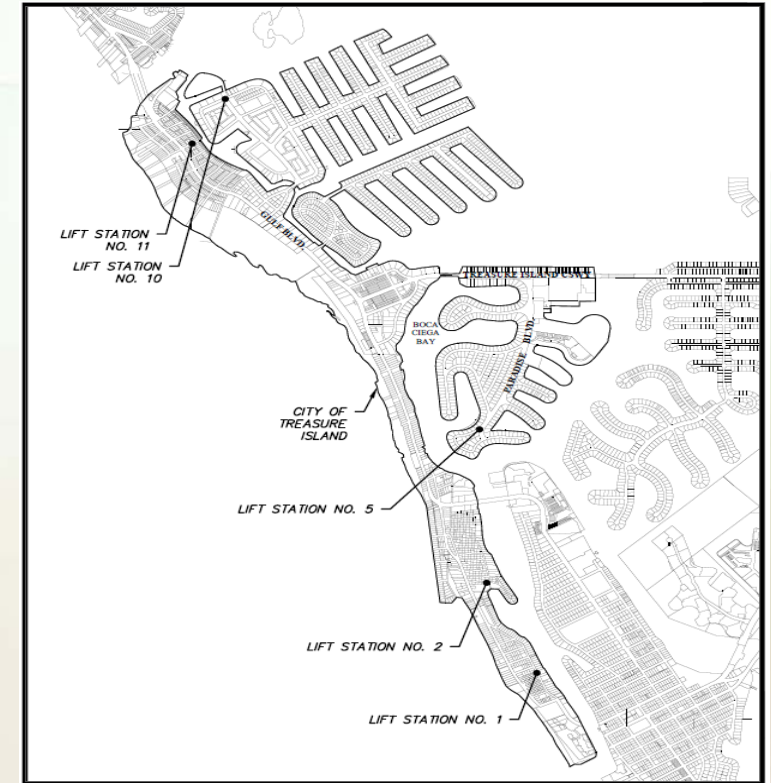
Manholes will be inspected and relining will be performed as-needed.

- Project Timeline:
 - January 2019 – September 2023
- Project Cost:
 - \$32,000 - Inspection
 - \$847,000 - Construction
- Project Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method:
 - Bid/Build



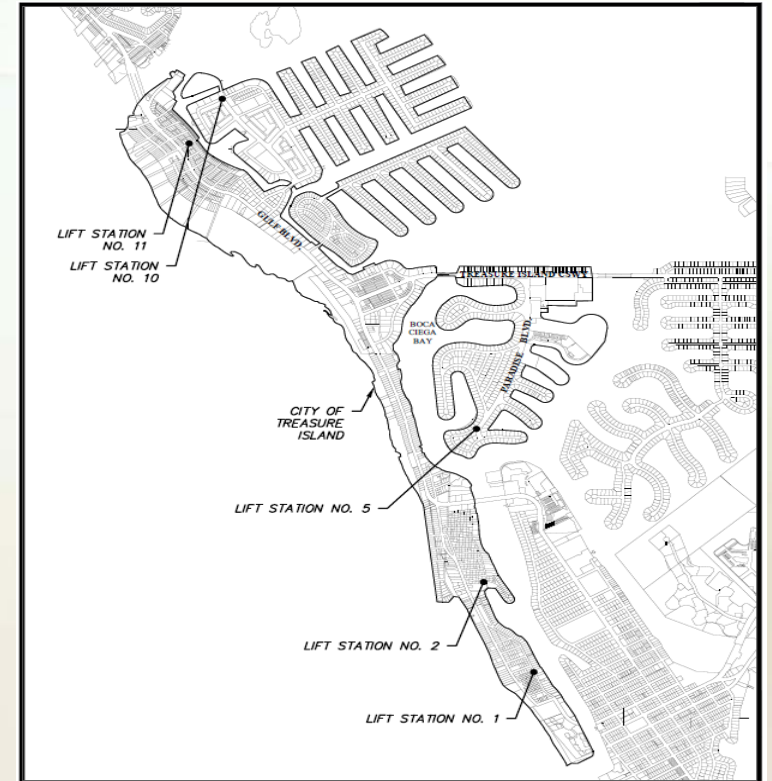
City of Treasure Island Capital Improvement Plan

- **Lift Station Rehabilitations (LS 1, 2, 5, 10 and 11)**
*Lift Stations will be mechanically and electrically rehabbed.
Construction includes new water-tight hatches.*
- Project Timeline:
 - April 2019 – August 2019
- Project Cost:
 - \$120,000 - Design
 - \$1,500,000 - Construction
- **Lift Station No. 3 Rehabilitation – FY 2023**
- Project Cost:
 - \$75,000 - Design
 - \$300,000 - Construction
- Projects Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method:
 - Design/Bid/Build



City of Treasure Island Capital Improvement Plan

- **Water-Tight Hatches for 4 Lift Stations**
Installation of new water-tight lift station hatches
- Project Timeline:
 - October 2020 – September 2023
- Project Cost:
 - \$300,000 - Construction
- Project Procurement Method:
 - Invitation to Bid or Annual Contract
- Project Delivery Method:
 - Bid/Build



City of Treasure Island Capital Improvement Plan

- **Sewer Main Lining**
Cured In-Place Pipe Lining – City Wide (ongoing)
- Project Timeline:
 - January 2019 – September 2023
- Project Cost:
 - \$1,840,000 - Construction
- Project Procurement Method:
 - Annual Contract
- Project Delivery Method:
 - Bid/Build



City of Treasure Island Capital Improvement Plan

- **Forcemain Condition Assessment**
Reassessment of the City's Forcemain & Subaqueous Crossings
- Project Timeline:
 - October 2020 – September 2021
- Project Cost:
 - \$550,000 - Assessment
- Project Procurement Method:
 - Annual Contract



Reminder!!

Project Specific Information Not Included In Today's Presentations Cannot And Will Not Be Shared At This Event

City of Clearwater



CLEARWATER

BRIGHT AND BEAUTIFUL • BAY TO BEACH

Clearwater Utilities Capital Improvement

- **Northeast WRF Grit, Salsnes and Equalization**
Replace Grit Removal, Primary Tanks and add EQ
- Project Timeline:
 - Construction 19/20
- Project Cost:
 - Construction Cost - \$9 Million
- Project Procurement Method:
 - Construction - Bid
- Project Delivery Method:
 - Design/Bid/Build



Clearwater Utilities Capital Improvement

- **Northeast WRF Blend Tank**

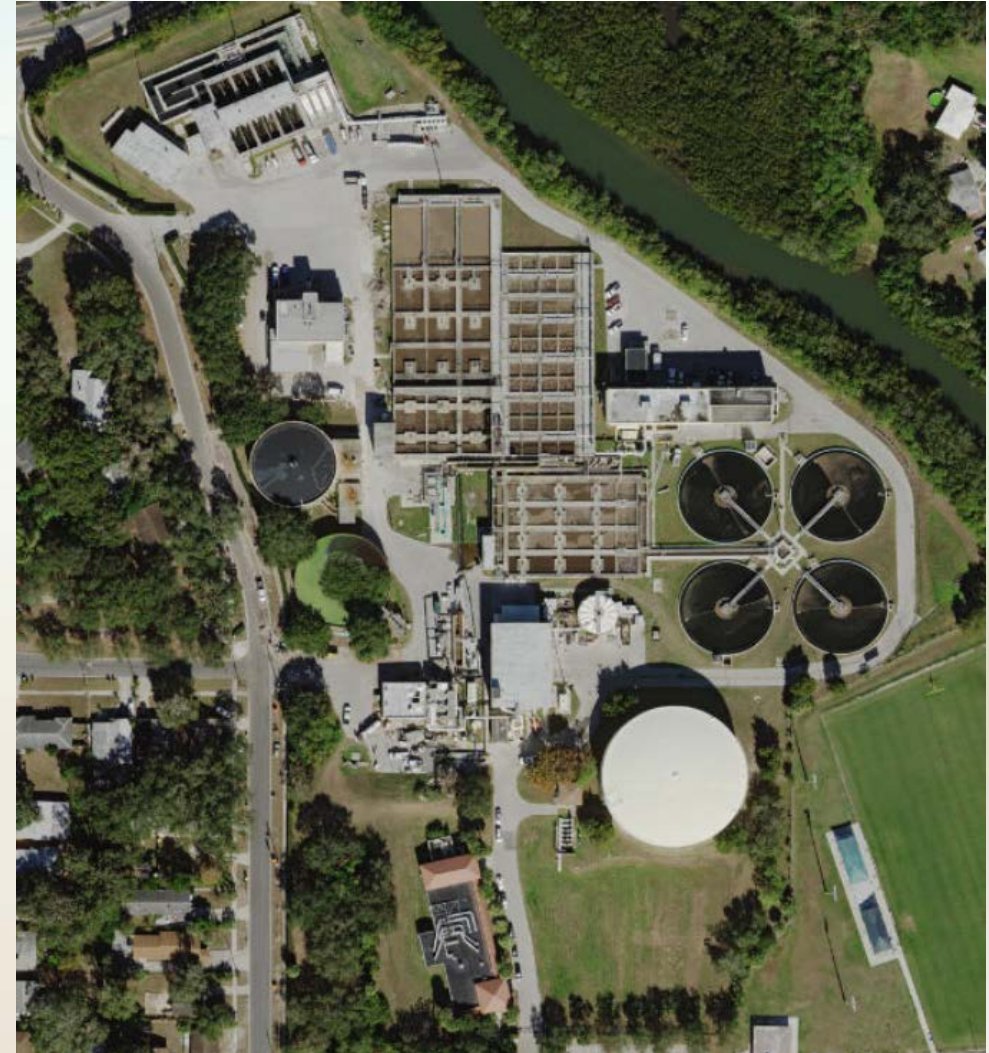
Upgrade Sludge Blend Tanks for Flexibility And New Mixers

- Project Timeline:
 - Construction 19/20
- Project Cost:
 - Construction Cost - \$2 Million
- Project Procurement Method:
 - Construction - Bid
- Project Delivery Method:
 - Design/Bid/Build



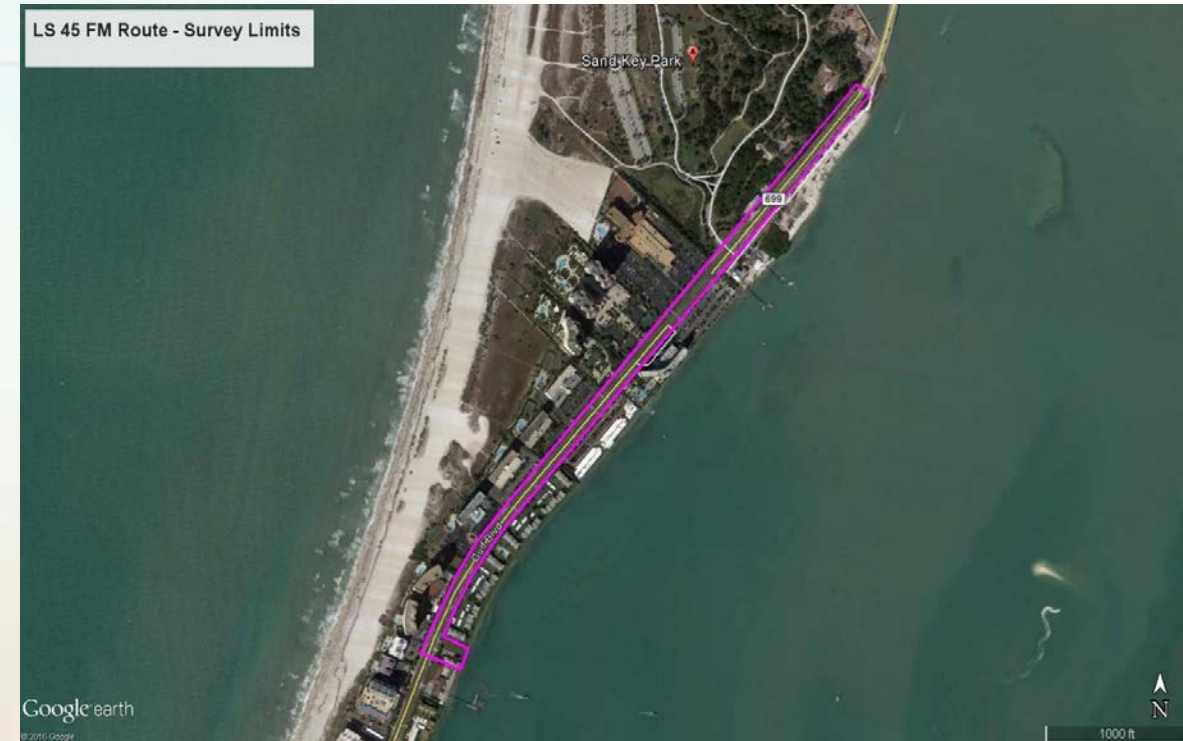
Clearwater Utilities Master Plan

- **Water Reclamation Facility Master Plan**
Master Plan for Three WRFs
- Project Timeline:
 - Design RFP - 19
 - Plan - 19/20
- Project Cost:
 - Engineering Cost - \$700 Thousand
- Project Procurement Method:
 - Engineering – RFP
- Project Delivery Method:
 - Design/Bid/Build



Clearwater Utilities Capital Improvement

- **Sand Key Force Main**
Replace existing Force Main
- Project timeline:
 - Construction 19/20
- Project cost:
 - Construction cost - \$2.5 Million
- Project procurement method:
 - Construction - Bid
- Project Delivery Method:
 - Design/Bid/Build



Clearwater Utilities Capital Improvement

- **Lift Station Upgrades**

Upgrade Several Lift Stations (Including Standby Power)

- Project Timeline:
 - Design - 21
 - Construction 22/23
- Project Cost:
 - Design Cost - \$850 Thousand
 - Construction Cost - \$3 Million
- Project Procurement Method:
 - Engineering – RFP
 - Construction - Bid
- Project Delivery Method:
 - Design/Bid/Build



City of St. Petersburg

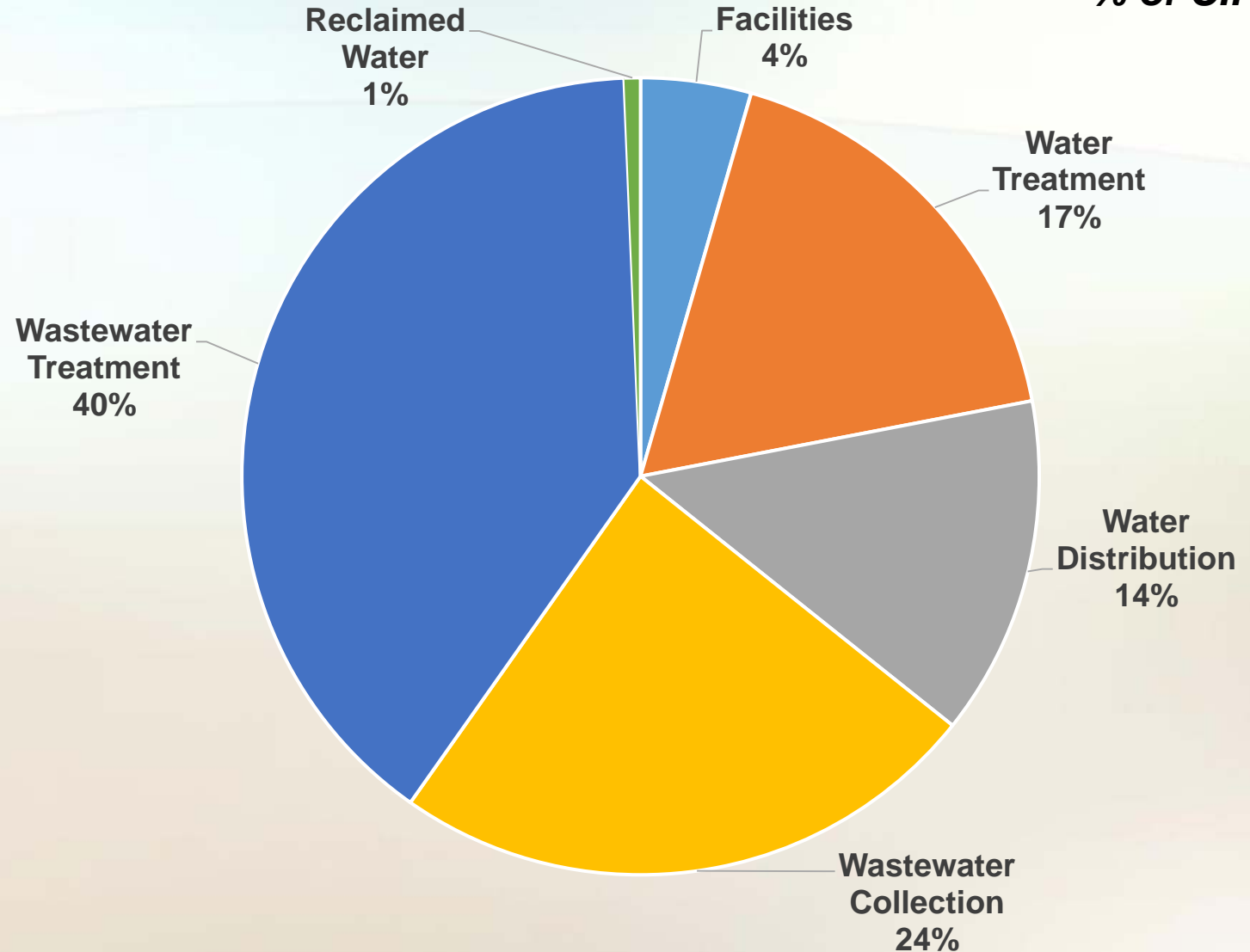


st.petersburg
www.stpete.org

FY 2019 CIP Budget

% of CIP Budget

\$117,380,000

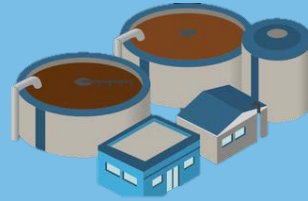


Kriseman Wastewater Improvement Plan

Unveiled November 3, 2016



**\$304 Million FY 2017
– FY 2021**



**Increase Capacity
of Existing Plants**

**Operate within
Regulatory
Guidelines Even
During Crisis**



**Engineer
Redundancy**



**Seal Targeted Sewers
& Manholes**



**Be Well Prepared for
Future Extreme
Weather**

FY 2019 – FY 2021 CIP Includes \$126.2M for Kriseman Plan Projects

Asset Management Projects

Resiliency Focus

- Reliability Improvements
- Replace Aging Assets
- Equipment Upgrades

2019 Asset Management CIP by Facility



NEWRF

\$14.4M: Headworks, Electrical System, Effluent PS

NWWRF

\$9.9M: Headworks, Digester Lid

SWWRF

\$11.5M: Effluent Pump Station

Cosme

\$20.5M: Header Valves, Switchgear, Console Bldg

Water Mains

\$9.9M: Galvanized Pipe, Meter Replacements, Valves

Excludes Regulatory Compliance Projects

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Regulatory Compliance Projects

\$115.2M (5-Year CIP)

- Off-Spec Storage = \$13.3M
- Consent Order = \$98M
- Injection Wells = \$1.8M
- Water Quality = \$2M

Forecast for Regulatory Compliance

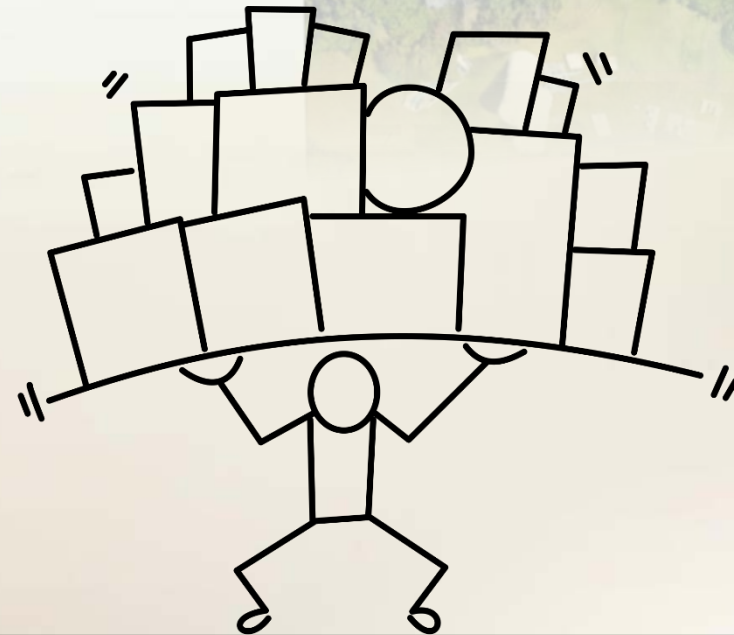


City of St. Petersburg Water Resources CIP 2019

- **Cosme Control Building, SCADA, and Electrical Upgrades**

Multistory ADA compliant addition to the filter building which will house a new control room and provide access to generator and gear room; Complete overhaul of SCADA software system and replacement of all control cabinets; Evaluate and replace instrumentation and cables; Upgrade of plant communication infrastructure; Installation of new switchgear and new plant power 4160 V electrical distribution system; Evaluation of high service pumps capacity and VFDs sizing;

- Project Timeline: Begin FY-19
 - DProject Cost:
 - esign \$1,375,000
 - Construction \$13,750,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Build



City of St. Petersburg Water Resources CIP 2019

- **Downtown Main Replacement**

Replacement of potable water mains in the downtown area defined as 5th Avenue North to 5th Avenue South from Dr MLK Street to the waterfront.

- Project Timeline:
 - Proposed Begin Design May Of 2019
- Project Cost:
 - Design \$181,818
 - Construction \$1,818,182
- Project Procurement Method:
 - Continuing Consultant Selection For Design And Bid For Construction.
- Project Delivery Method:
 - Design/Bid/Build



City of St. Petersburg Water Resources CIP 2019

- **Galvanized and Unlined Main Replacement**

Elimination and replacement of galvanized and unlined cast iron potable water mains City-wide.

- Project Timeline:
 - Multi-year Award FY-19 To FY-23
- Project Cost:
 - Design \$1,363,637
 - Construction 1/Yr \$2,727,273
 - Construction 5 Yr \$13,636,363
- Project Procurement Method:
 - RFQ For Design And Construction Services And Bid For Construction.
- Project Delivery Method:
 - *Design/Bid/Build*

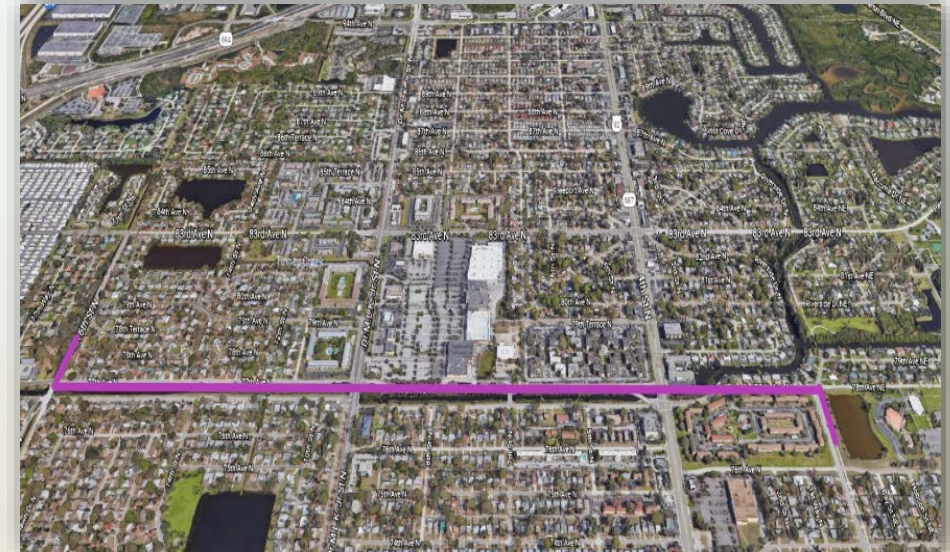


City of St. Petersburg Water Resources CIP 2019

- **Northeast Reclaimed Water Main Replacement**

Replacement of 8,000 LF of 36" reclaimed water pre-stressed concrete cylinder pipe installed in the 1980s. This is the final of four phases.

- Project Timeline:
 - Design FY-19 And Construction FY-20/21
- Project Cost:
 - Design \$510,000
 - Construction \$7,900,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Build



City of St. Petersburg Water Resources CIP 2019

- **Northwest Reclaimed Water Main Replacement**

Replacement of 9,600 LF of 30" reclaimed water pre-stressed concrete cylinder pipe installed in the 1980s.

- Project Timeline:
 - Design FY-20 And Construction FY-21/22
- Project Cost:
 - Design \$610,000
 - Construction \$9,400,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Build



City of St. Petersburg Water Resources CIP 2019

- **Lake Tarpon Water Main Replacement**

Replacement of 130 LF of 48 inch diameter buried steel pipe on the east side of the Lake Tarpon Outfall Canal. This pipe replaced the original water concrete water transmission pipe which was removed to facilitate construction of the outfall canal in 1971.

- Project Timeline:
 - FY-19
- Project Cost:
 - Design \$200,000
 - Construction \$1,500,000
- Project Procurement Method:
 - *Continuing Consultant Selection*
- Project Delivery Method:
 - *TBD*



City of St. Petersburg Water Resources CIP 2019

- **Pasadena Force Main Replacement Phase 3**

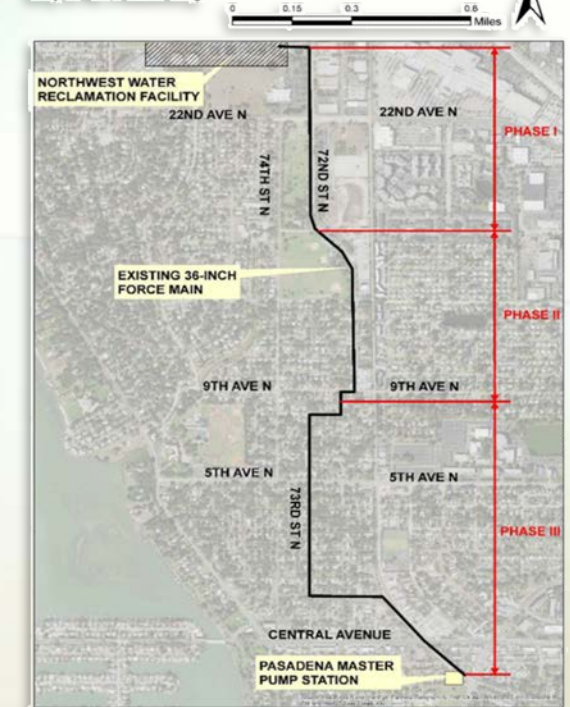
The final phase of replacing and relocating the 36" force main running from the Pasadena Pumping Station to the NWWRF.

- Project Timeline:
 - Begin FY-19
- Project Cost:
 - Design \$400,000 (Current)
 - Construction \$6,200,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - TBD

Exhibit 2-1 : Original 36-Inch Pasadena Force Main

EXISTING 36-INCH PASADENA FORCE MAIN (1979)

City of St. Petersburg



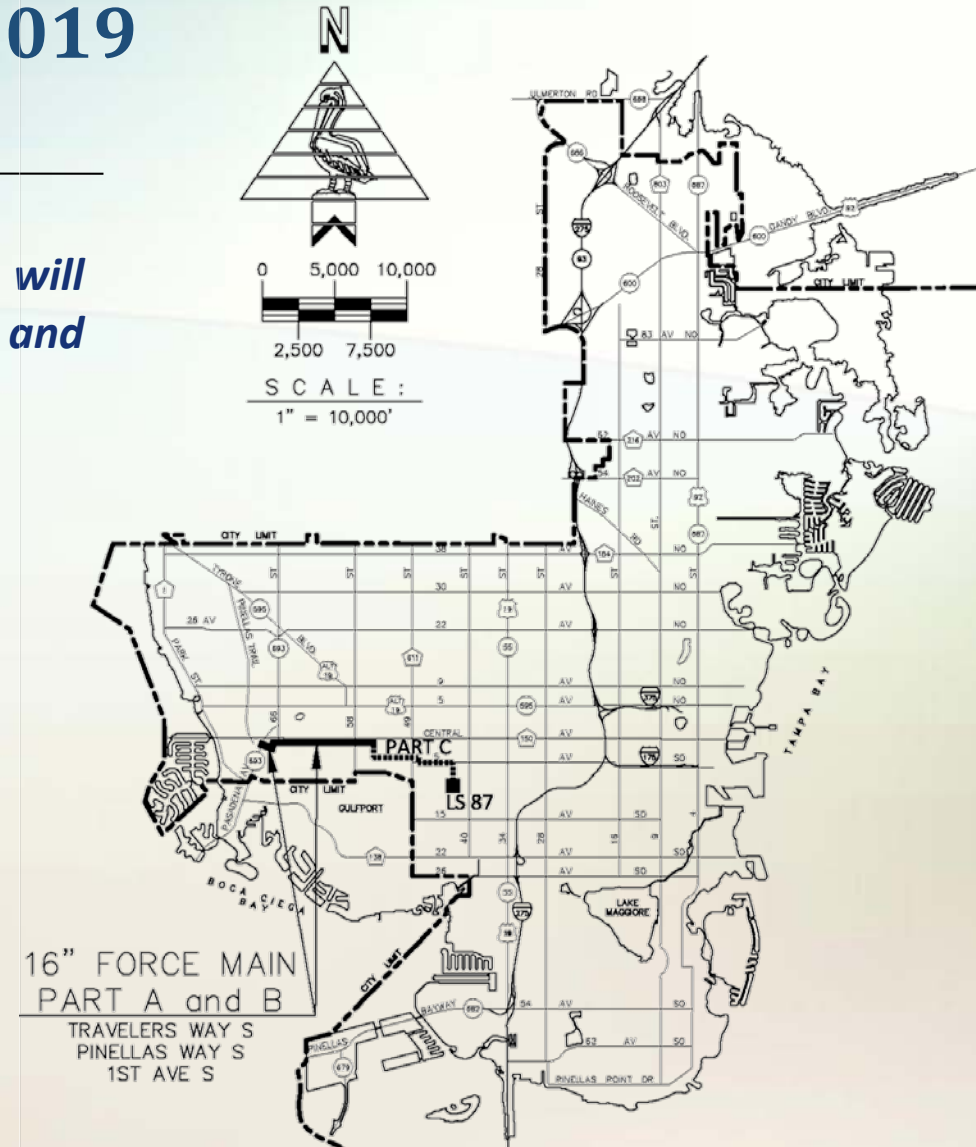
ROUTE VERIFICATION TECHNICAL MEMORANDUM
PASADENA 36-INCH FORCE MAIN REPLACEMENT PROJECT - PHASE III
CITY OF ST. PETERSBURG

City of St. Petersburg Water Resources CIP 2019

- **SW/ NW Wastewater Transfer Main and Lift Station**

Design and construction a force main pipe and transfer station that will divert flows during heavy rainfall between the SWWRF drainage basin and the NWWRF basin near the Pasadena Pump Station.

- Project Timeline:
 - Design FY-19
 - Construction FY-20
- Project Cost:
 - Design \$200,000
 - Construction \$7,700,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Build



City of St. Petersburg Water Resources CIP 2019

- **Gravity Sewer Repair and Replace**

Three separate construction contracts to dig and replace/repair gravity sewer that are not candidates for trenchless technologies.

- Project Timeline:

- FY-19

- Project Cost:

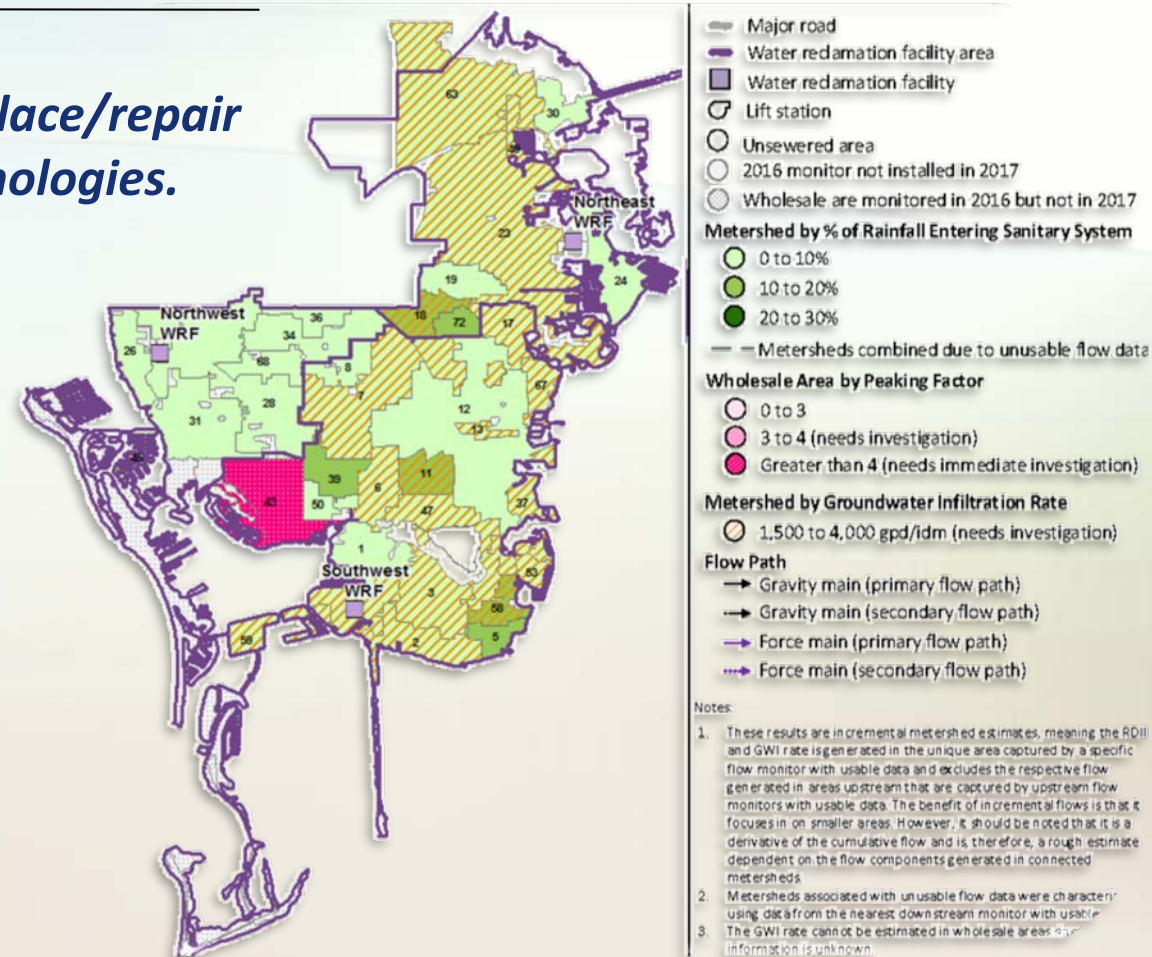
- City-wide Repair/Replace \$4,000,000
- Priority Area Repair/Replace \$2,000,000
- HDPE Liner Replacement \$2,000,000

- Project Procurement Method:

- Bid

- Project Delivery Method:

- Contractor Selection

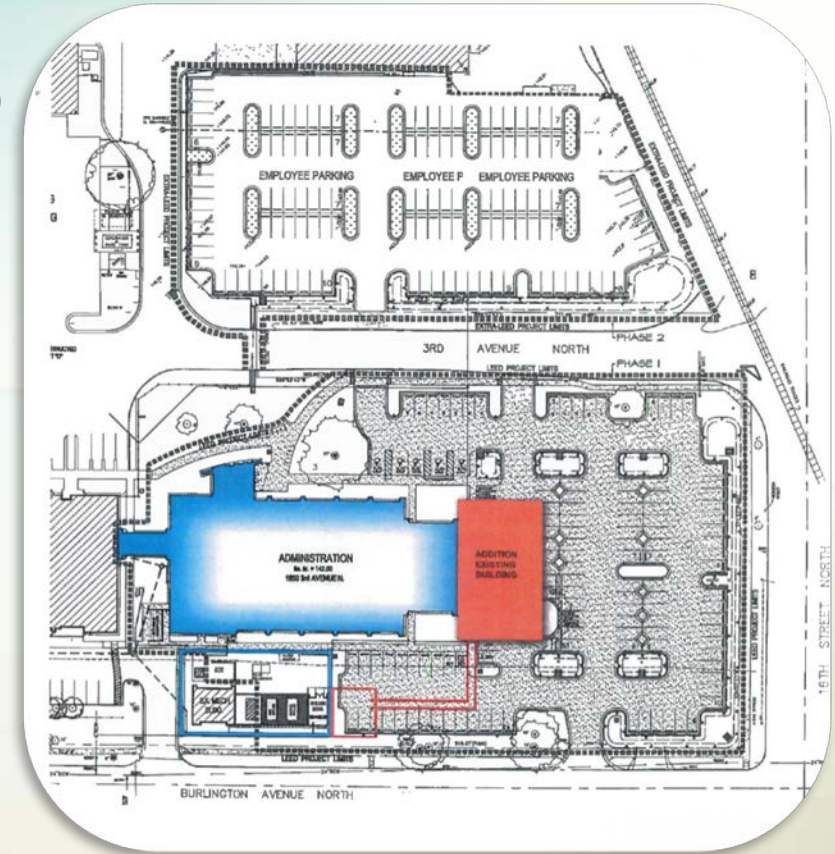


City of St. Petersburg Water Resources CIP 2019

- **Laboratory Building Replacement**

Design and construction of a water quality laboratory building and furnishings. The new laboratory will be attached to the east end of the administrative building on 3rd Ave. N. It will combine all Environmental Compliance Division personnel in one building. This location was identified in the 2017 Lab Facilities Study.

- Project Timeline:
 - Design FY-19
 - Construction FY-21
- Project Cost:
 - Design \$600,000
 - Construction \$4,200,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Bid/Build

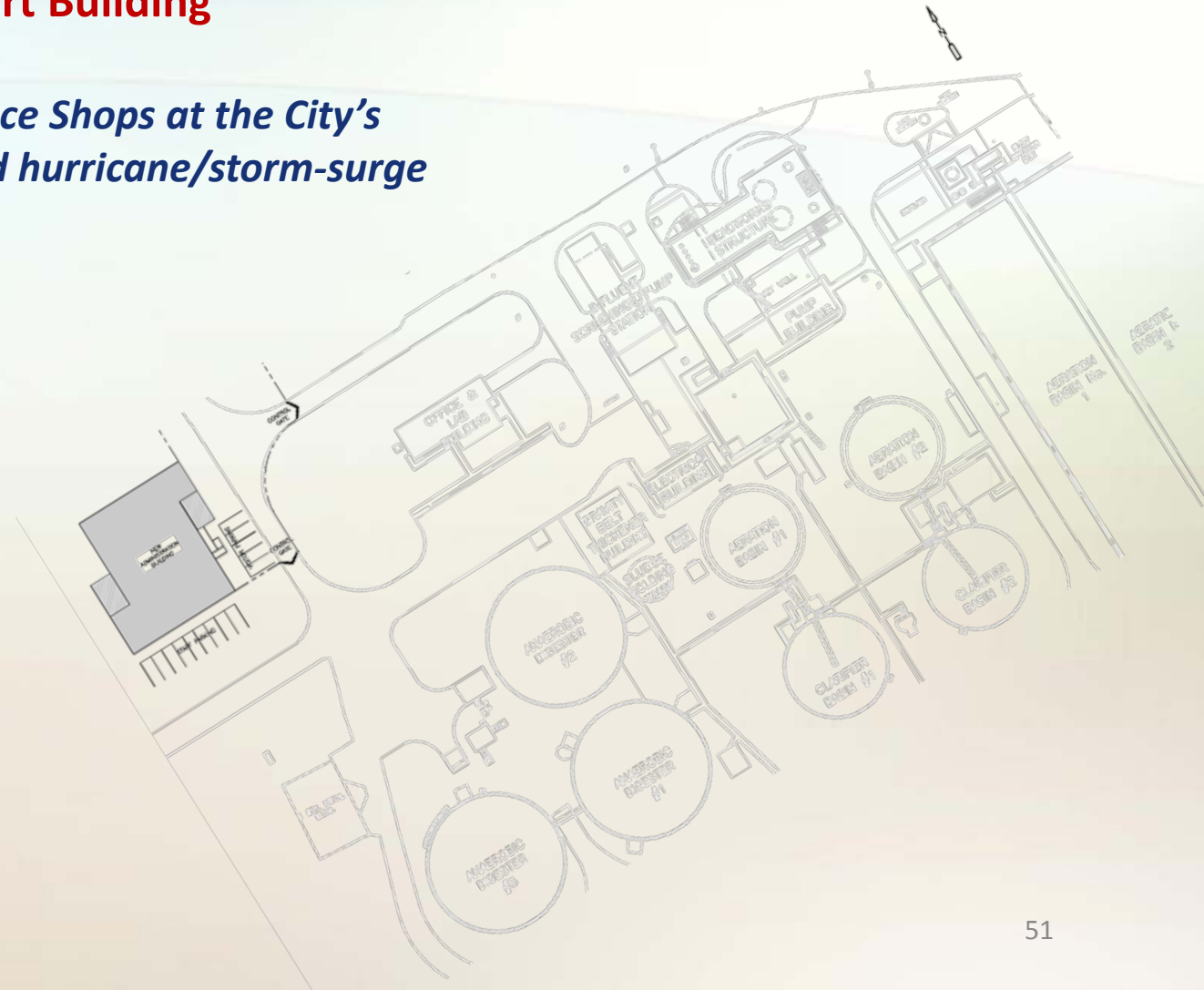


City of St. Petersburg Water Resources CIP 2019

- **Water Reclamation Facilities Operations/Support Building Replacements**

New Operations and Lab Buildings and two Maintenance Shops at the City's Water Reclamation Facilities. Consistency in design and hurricane/storm-surge hardening will be key requirements.

- Project Timeline:
 - Design Begins FY-19
 - Construction FY-20 Thru FY-21
- Project Cost:
 - Design \$1,400,000
 - Construction \$14,700,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Build



City of St. Petersburg Water Resources CIP 2019

- **Northeast Water Reclamation Facility Distribution Pump Station Replacement**

Distribution pump station is used to pump all of the treated water from the NE treatment facility to the wells or reclaim distribution system. This process consist of four (4) 500 horsepower motors, pumps, controls, valves, pipes, and a wet well concrete structure.

- Project Timeline:
 - Design FY-19
 - Construction FY-20
- Project Cost:
 - Design \$250,000
 - Construction \$2,000,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - Design/Bid/Build



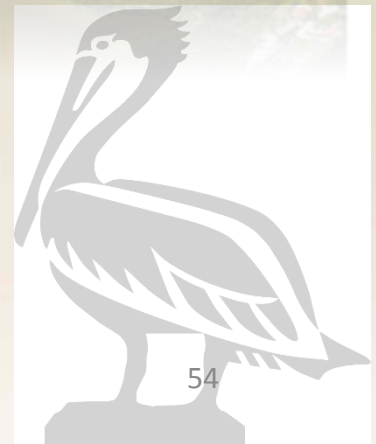
City of St. Petersburg Water Resources CIP 2019

- **Northeast Water Reclamation Facility Electrical Power Distribution Improvements**
Replacement of existing power distribution and electrical equipment.
- Project Timeline:
 - Design And Construction FY-19
- Project Cost:
 - Design \$575,000 (Award Pending)
 - Construction \$5,000,000
- Project Procurement Method:
 - RFQ/Bid
- Project Delivery Method:
 - *Design/Bid/Build*



City of St. Petersburg Water Resources CIP 2019

- **Northeast Water Reclamation Facility Effluent Filter Upgrade**
Upgrading the existing filters to increase treatment capacity. This will be done by either adding an additional disk filter or changing the filters to newer technology. The direction of this project will be determined during the design phase in FY18.
- Project Timeline:
 - Design And Construction FY-19
- Project Cost:
 - Design \$600,000 (Current)
 - Construction \$3,000,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - *Design/Bid/Build*



City of St. Petersburg Water Resources CIP 2019

- **Northeast Water Reclamation Facility Clarifier Rehabilitation**

Clarifier #1 is part of original plant design in the 1950s. The mechanical and electrical components are in need of rehabilitation.

- Project Timeline:
 - Design And Construction FY-19
- Project Cost:
 - Design \$120,000
 - Construction \$1,200,000
- Project Procurement Method:
 - *Continuing Consultant Selection.*
- Project Delivery Method:
 - *Tbd*



City of St. Petersburg Water Resources CIP 2019

- **Northwest Water Reclamation Facility Reject Storage Tank**
Construction of an additional 10 million gallons of tank storage capacity for reject water.

- Project Timeline:
 - Design And Construction FY-19
- Project Cost:
 - Design \$500,000 (Award Pending)
 - Construction \$10,000,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - CMAR



City of St. Petersburg Water Resources CIP 2019

- **Northwest Water Reclamation Facility Influent Pump Station, Screening, and Odor Control**

Design and construction of a new influent pump station, coarse and fine bar screens, and odor control system.

- Project Timeline:
 - Design FY-19 And Construction FY-20
- Project Cost:
 - Design \$735,000 (Award Pending)
 - Construction \$14,000,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - CMAR



City of St. Petersburg Water Resources CIP 2019

- **Southwest Water Reclamation Facility High Service Effluent Pump Station**

Design and construction of new effluent pumping station with pumps and motors, associated piping, electrical MCC, and surge tank.

- Project Timeline:
 - Design FY-19
 - Construction FY-20
- Project Cost:
 - Design \$900,000
 - Construction \$9,100,000
- Project Procurement Method:
 - RFQ
- Project Delivery Method:
 - TBD



Pinellas County Utilities

Pinellas County



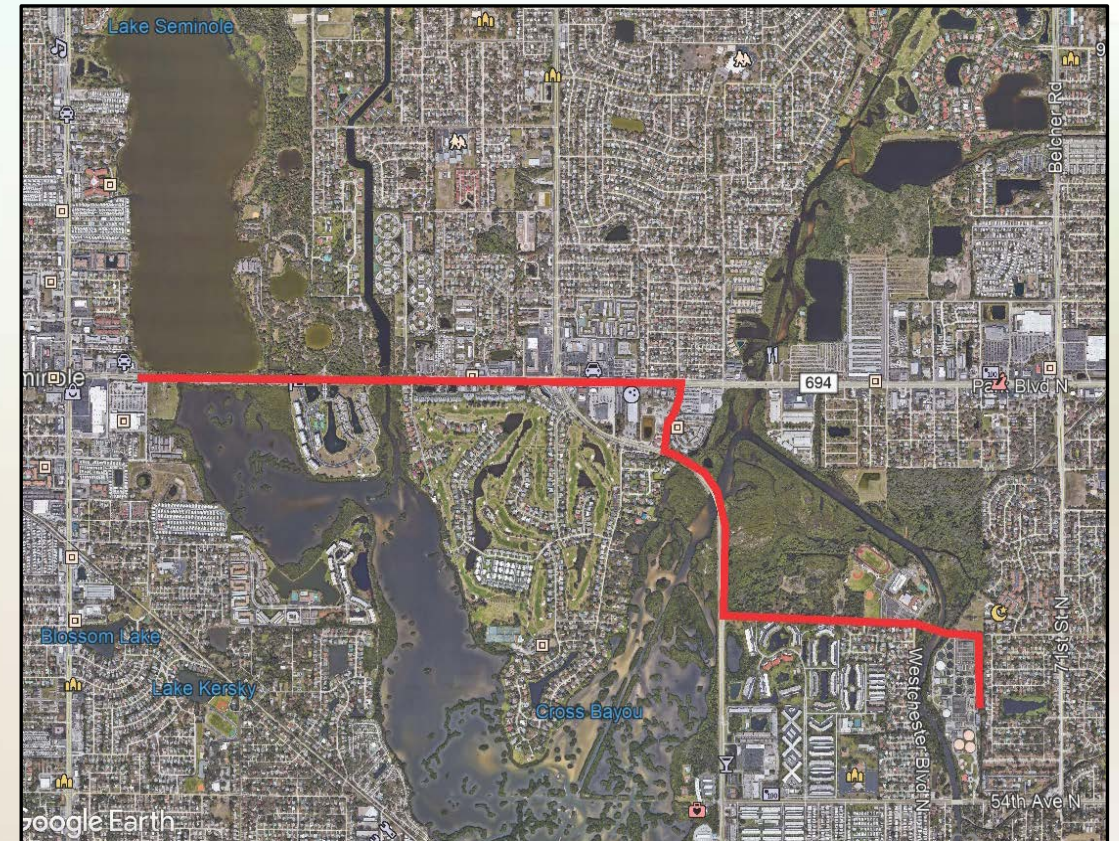
Presentation Overview

- Pinellas County Vision: *To be the standard for public service in America*
- FY19-24 Capital Plan approved by the Board of County Commissioners
 - Sewer & Reclaim 5yr Plan: \$271,243,300
 - Water 5yr Plan: \$85,454,500
- FY 19 Water, Sewer and Reclaim Capital Improvement
 - Sewer & Reclaim: \$39,123,300
 - Water: \$14,452,700
- Master Planning and Operational Studies: \$4,000,000

Horizontal Asset Production

Pinellas County Utilities Capital Improvement

- **Redundant Force Main from PS 016 to SCBWRF**
Design and construction of a new 36" force main to replace existing 36" DI force main, which is at significant risk of failure due to its condition. The existing 36" to remain as a redundant back up.
- Project Timeline:
 - Design NTP – Completed
 - 100% Submittal – Nov. 2018
 - Bidding thru Apr. 2019
 - Construction – May 2019 to Sept. 2020
- Project Cost:
 - Design Cost - \$1.5M
 - Construction Cost - \$14M (Estimate)
- Project Procurement Method:
 - RFP
- Project Delivery Method:
 - Design/Bid/Build

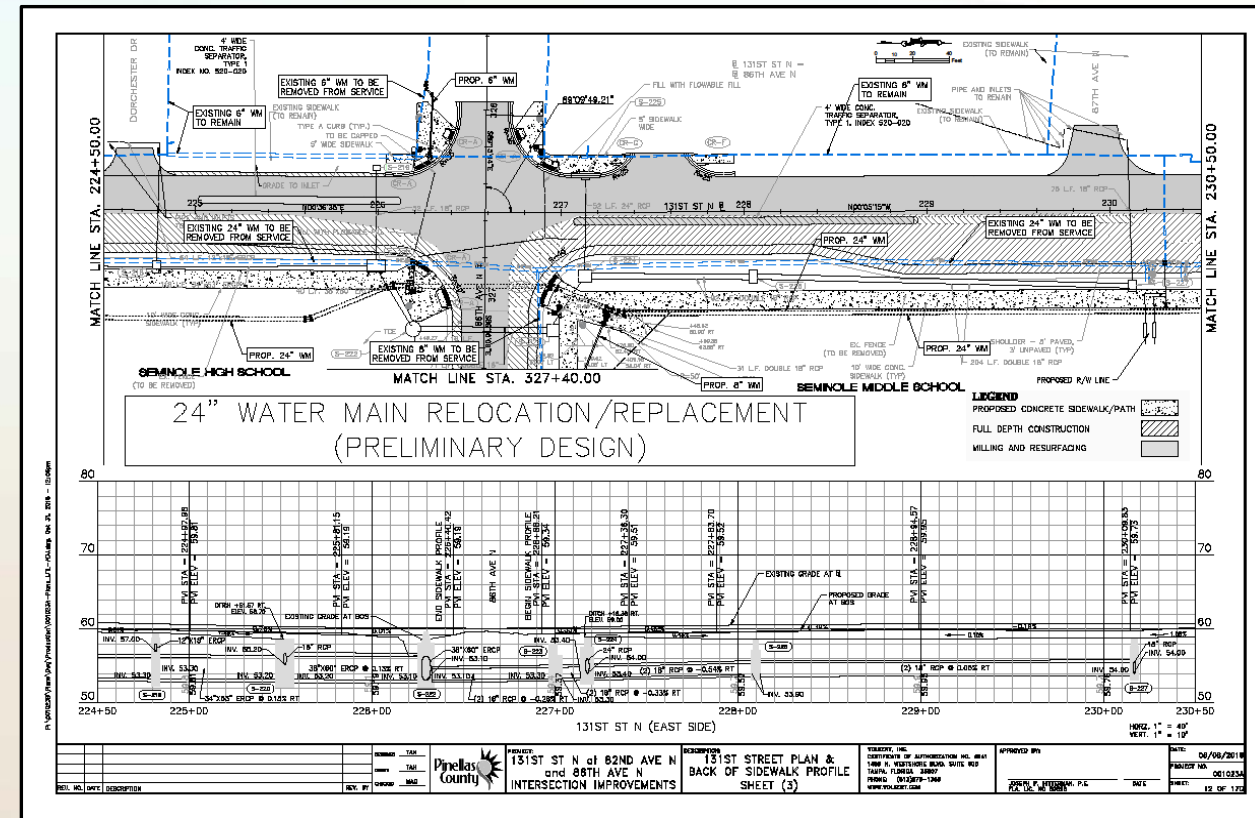


Pinellas County Utilities Capital Improvement

- **131st Street N at 82nd Ave & 86th Ave N Intersection Improvements**

Project 001023B will include the relocation of 2,000 LF of 24 inch and 8 inch water mains in conjunction with Public Works Intersections, drainage and Sidewalk Improvements

- Project Timeline
 - Design 2017 to 2018
 - Construction 2019 to 2021
- Project Cost
 - Design Cost - \$20K
 - Construction Cost - \$1.2M
- Project Procurement Method:
 - Continuing Consultant Selection
- Project Delivery Method:
 - Design/Bid/Build



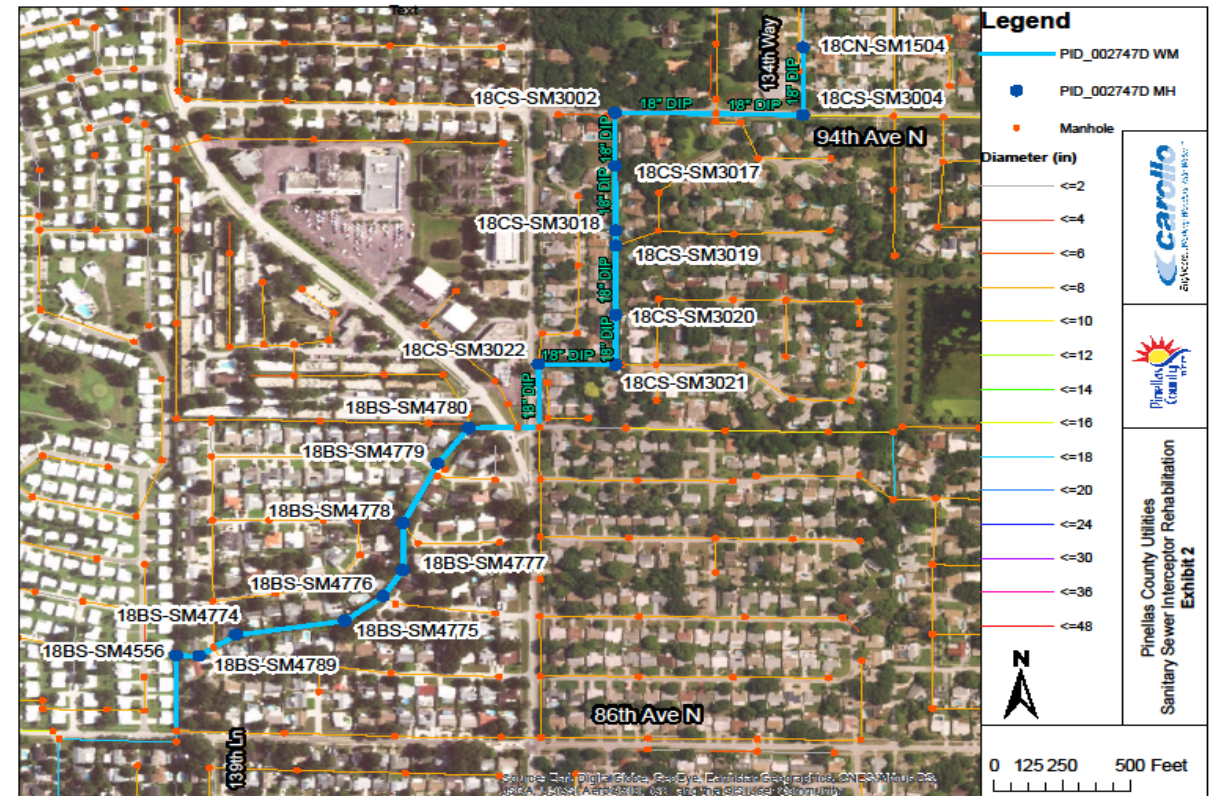
Horizontal Asset Planning

Pinellas County Utilities Capital Improvement

- **Programmatic and Project Specific Sewer CIPP Rehabilitations**

19 Total CIP Projects comprised of CIPP lining Rehabilitation of 8" – 36" sewer lines in the Sewer Collections System

- Project Timeline:
 - Design 2019
 - Construction 2020
- Project Cost:
 - Design Cost - \$4.9M
 - Construction Cost - \$3.7M
- Project Procurement Method:
 - Combination of In-house Design and Continuing Consulting Selections
- Project Delivery Method:
 - Design/Bid/Build

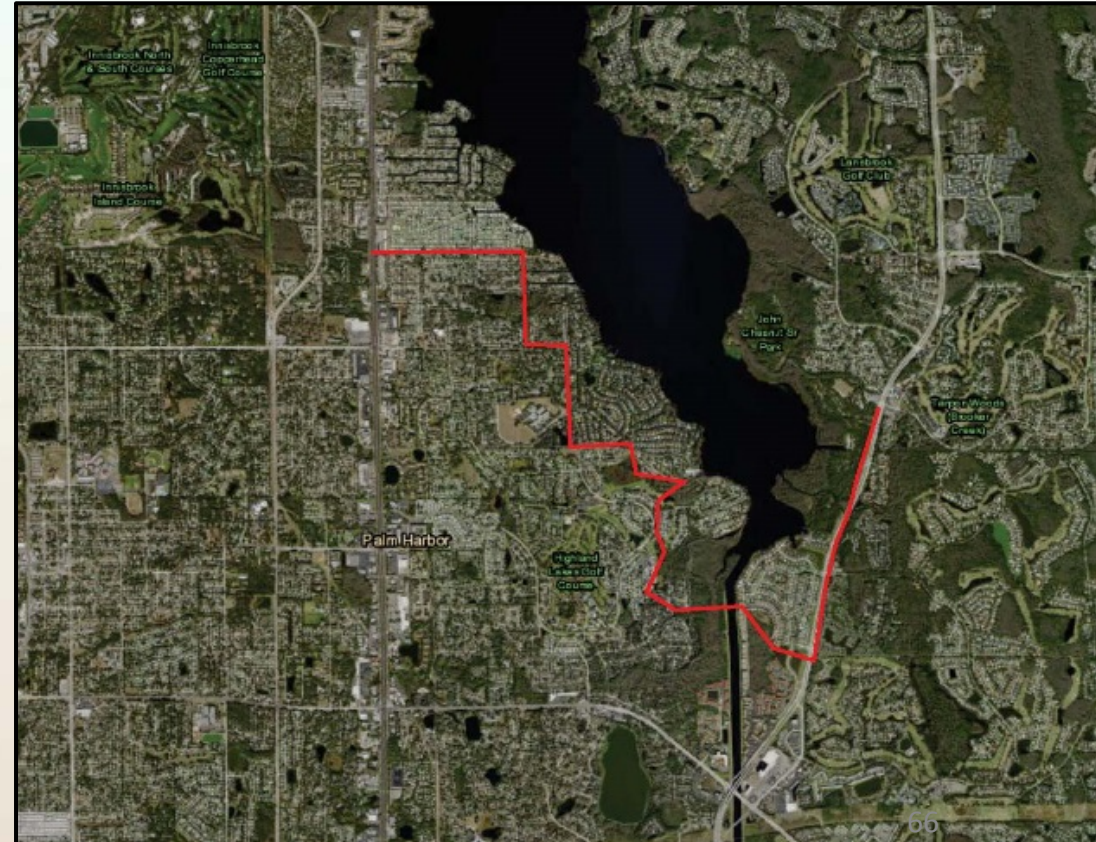


Pinellas County Utilities Capital Improvement

- **Eastlake Force Main Capacity Improvement & Highland Lakes Force Main Replacement**

Projects 003760A and 003761A will be comprised of installation of a new sewer force main from the Eastlake area to W.E. Dunn WRF

- Project Timeline / Cost:
 - 003760A (East Lake Road)
 - Design 2019 \$100K
 - Construction 2019 - 2021 \$6M
 - 003761A (Highland Lakes)
 - Design Oct. 2021 \$150K
 - Construction 2022 - 2024 \$7.5M
- Project Procurement Method:
 - Continuing Consulting Selections
- Project Delivery Method:
 - Design/Bid/Build



Vertical Asset Production

Pinellas County Utilities Capital Improvement

- **South Cross Bayou Water Reclamation Facility - Grit Facility Improvements**

Project 002944A will be comprised of complete removal and replacement of the existing Headworks and Grit Structure

- Project Timeline: (Awarded)
 - Design 2019 to 2020
 - Construction 2020 to 2022
- Project Cost:
 - Design Cost - \$1.6M
 - Construction Cost - \$18M
- Project Procurement Method:
 - RFP
- Project Delivery Method:
 - Progressive Design Build



Pinellas County Utilities Capital Improvement

- **South Cross Bayou Water Reclamation Facility Denitrification Filter Rehab**

Project 003408A will include replacement of analytical instrumentation, flow meters, EMO Valves, media and underdrain analysis and replacement, methanol feed replacement

- Project Timeline:
 - Design 2019
 - Construction - 2019 to 2023
- Project Cost:
 - Design Cost - \$300K
 - Construction Cost - \$4.7M
- Project Procurement Method:
 - CCNA Consultant Selection
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Utilities Capital Improvement

- **South Cross Bayou Water Reclamation Facility Aeration Improvements**

Project 002937A will include rehabilitation and replacement of the existing aeration system and south train blowers inclusive of alternate process designs

- Project Timeline:
 - Design 2019
 - Construction 2019 to 2024
- Project Cost:
 - Design Cost - \$600K
 - Construction Cost - \$5.8M
- Project Procurement Method:
 - CCNA RFP
- Project Delivery Method:
 - Design/Bid/Build

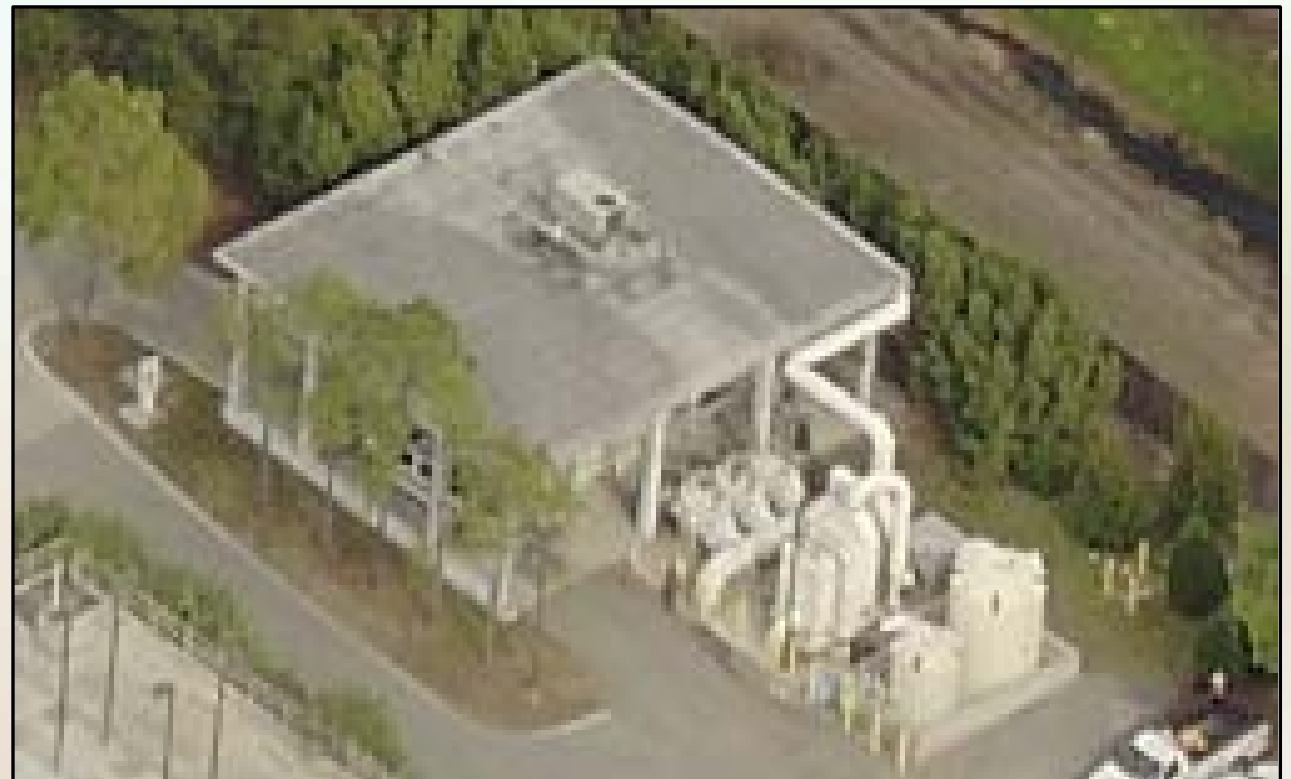


Pinellas County Utilities Capital Improvement

- **South Cross Bayou Water Reclamation Facility Influent Pump Station Improvements**

Project 003758A will include rehabilitation and replacement of variable frequency drives, flowmeters, and upgrades to instrumentation and mechanical equipment

- Project Timeline:
 - Design 2021
 - Construction 2021 to 2024
- Project Cost:
 - Design Cost - \$320K
 - Construction Cost - \$2.8M
- Project Procurement Method:
 - CCNA RFP
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Utilities Capital Improvement

- **W.E. Dunn Water Reclamation Facility - Electrical Improvements**
- Project Timeline:
 - 48 Months
 - Design 2019 In Process
 - Construction TBD
- Project Cost:
 - Design Cost - \$400K
 - Construction Cost - \$7.5M
- Project Procurement Method:
 - CCNA RFP
- Project Delivery Method:
 - Design/Bid/Build

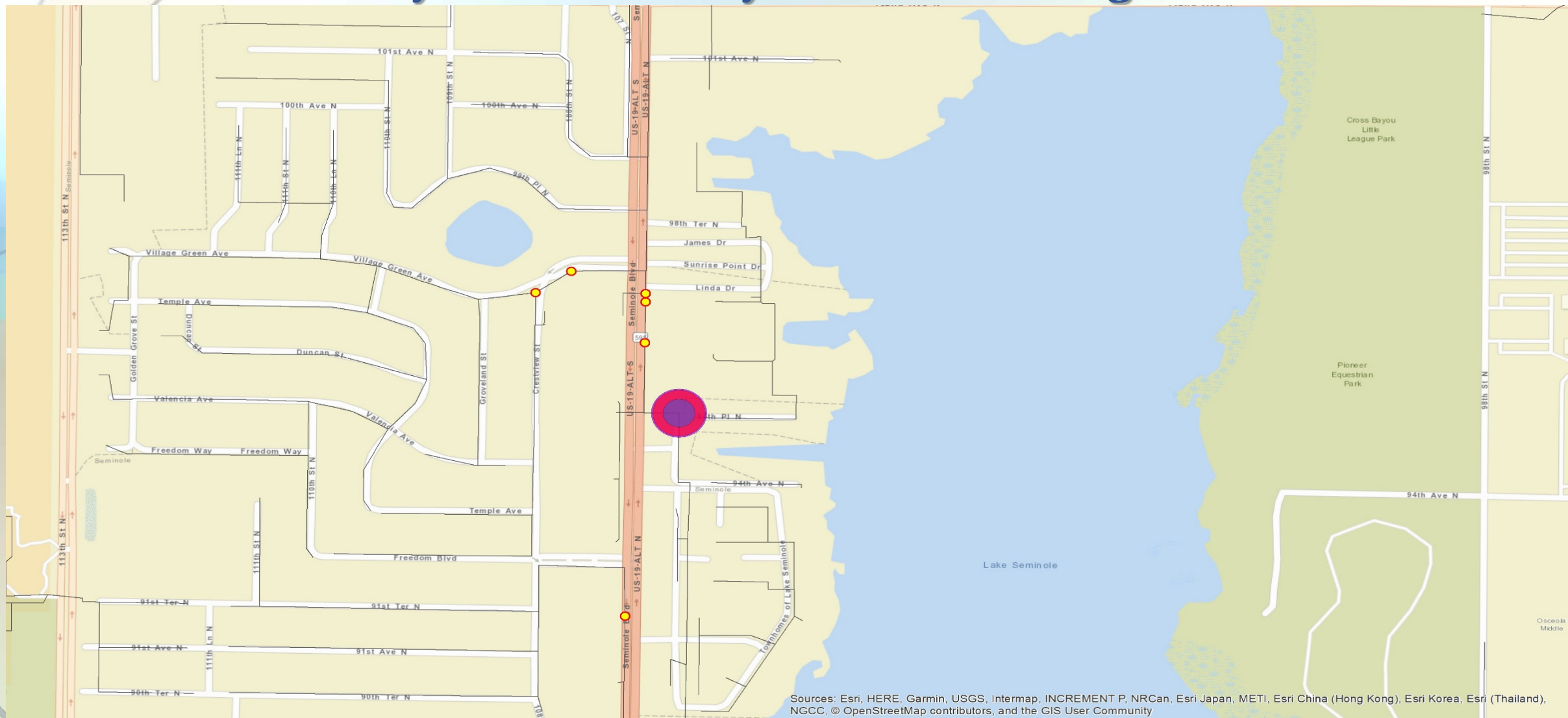


Vertical Asset Planning



Inflow and Infiltration Studies

Pinellas County – South County Flow Monitoring



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Pinellas County Public Works

Pinellas County



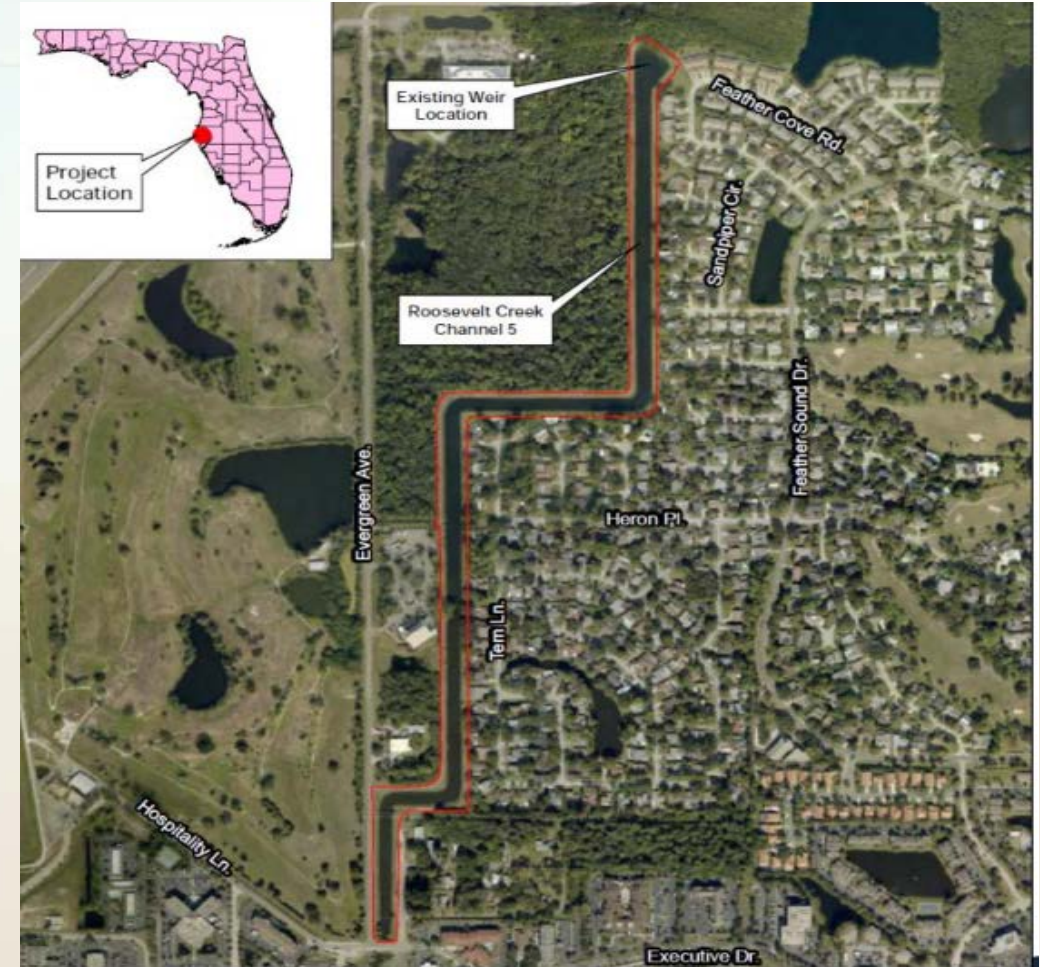
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Mullet Creek Channel B Erosion Control (003894A)**
Provide erosion control measures to stabilize creek banks from McMullen Booth Road easterly approx. 1,200'
- Project Timeline:
 - Design Oct 2018 – June 2020
 - Construction FY20-21
- Project Cost:
 - Design \$83,000
 - Construction \$1M
- Project Procurement Method:
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



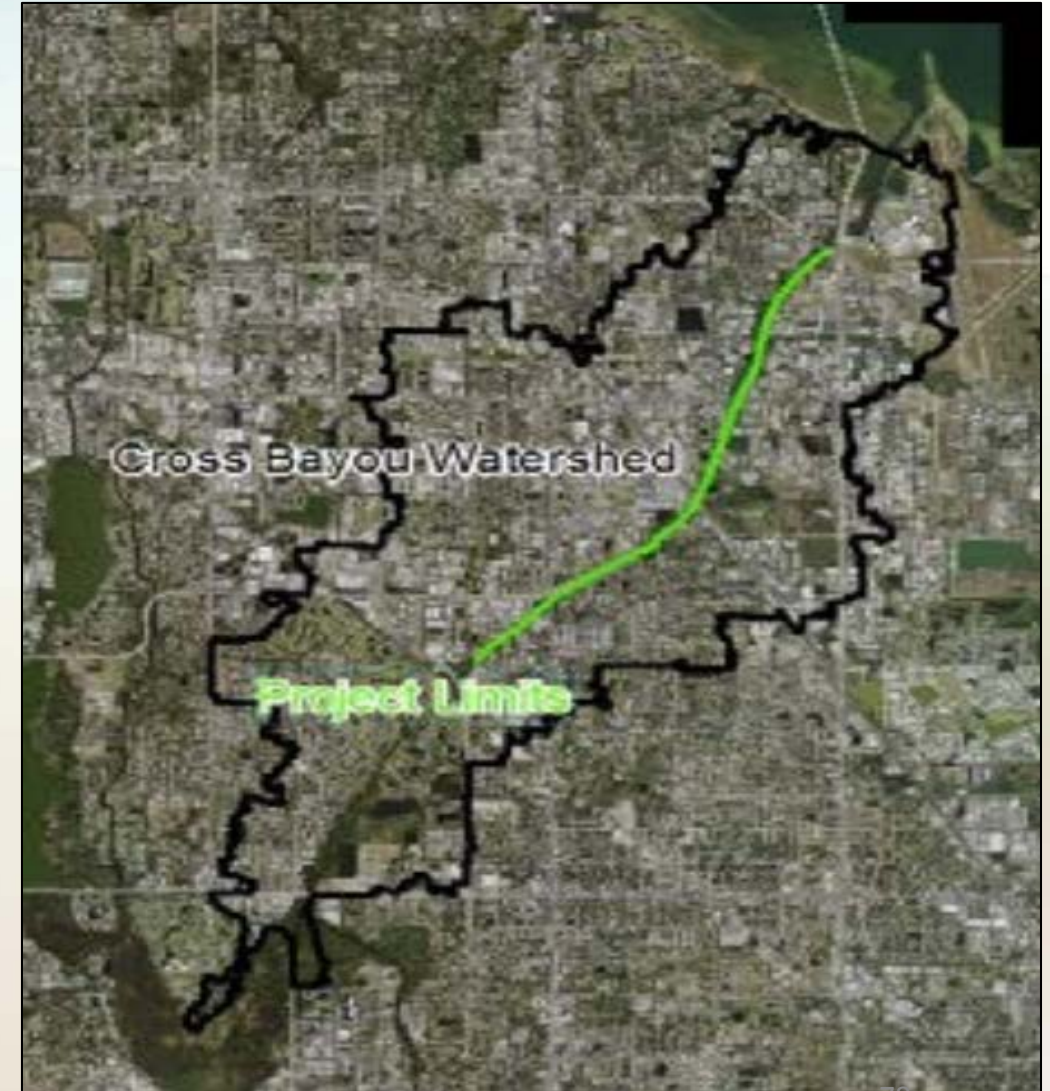
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Roosevelt Channel 5 Improvements (002123A)**
Improve stormwater flow and habitat by removal of a salinity weir to restore the natural connection to Tampa Bay
- Project Timeline:
 - Design Near Completion
 - Construction May 2019 – Aug 2020
- Project Cost:
 - Construction \$2M
- Project Procurement Method:
 - Bid
- Project Delivery Method:
 - Design/Bid/Build



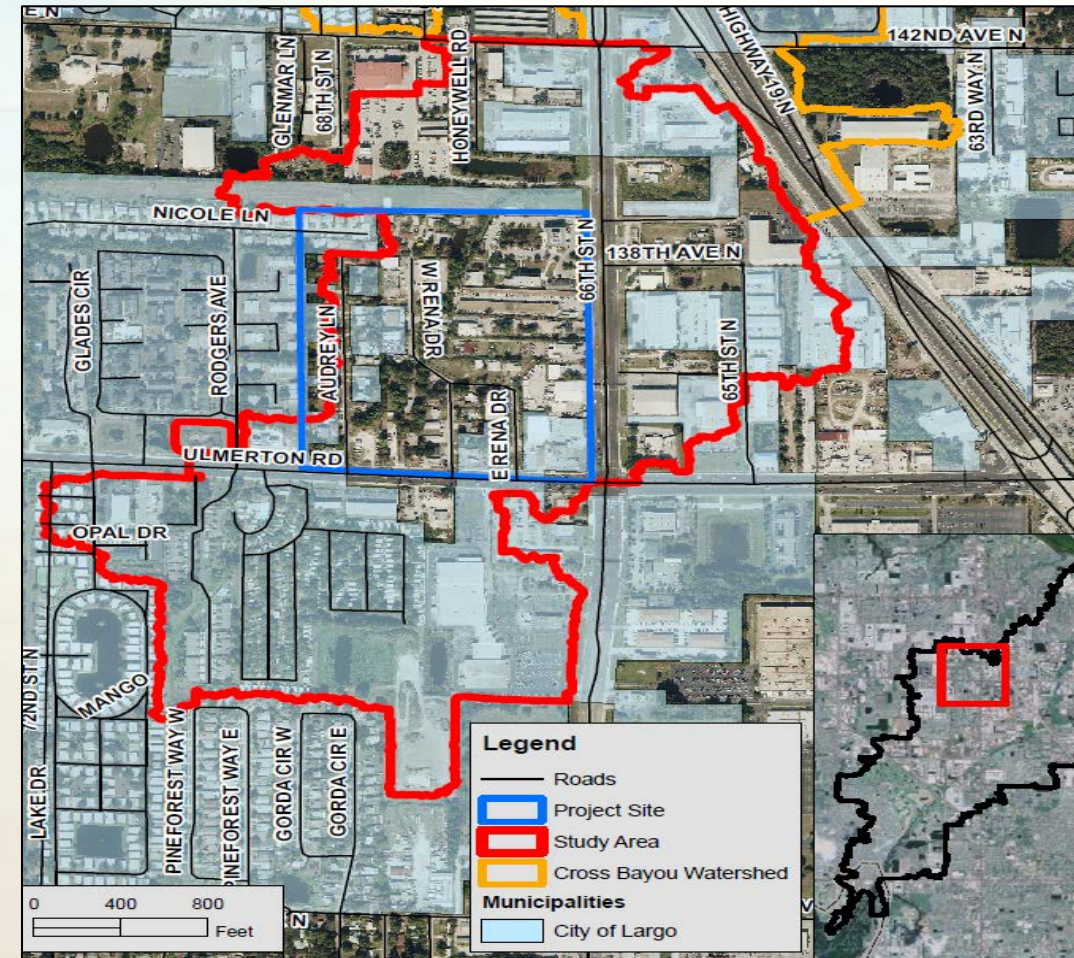
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Cross Bayou Canal Flood Control Improvements (002124A)**
Channel improvements, dredging, exotic vegetation removal, and bank stabilization to restore and extend lifespan of canal
- Project Timeline:
 - Exotic Vegetation Removal: On-going
 - Acquisition Of Property Rights FY19-20
 - Design FY19-20 (in progress)
 - Construction FY20-21
- Project Cost:
 - Acquisition \$3M
 - Design \$1.8M (in progress)
 - Construction \$4M
- Project Procurement Method:
 - CCNA RFP Bid
- Project Delivery Method: TBD



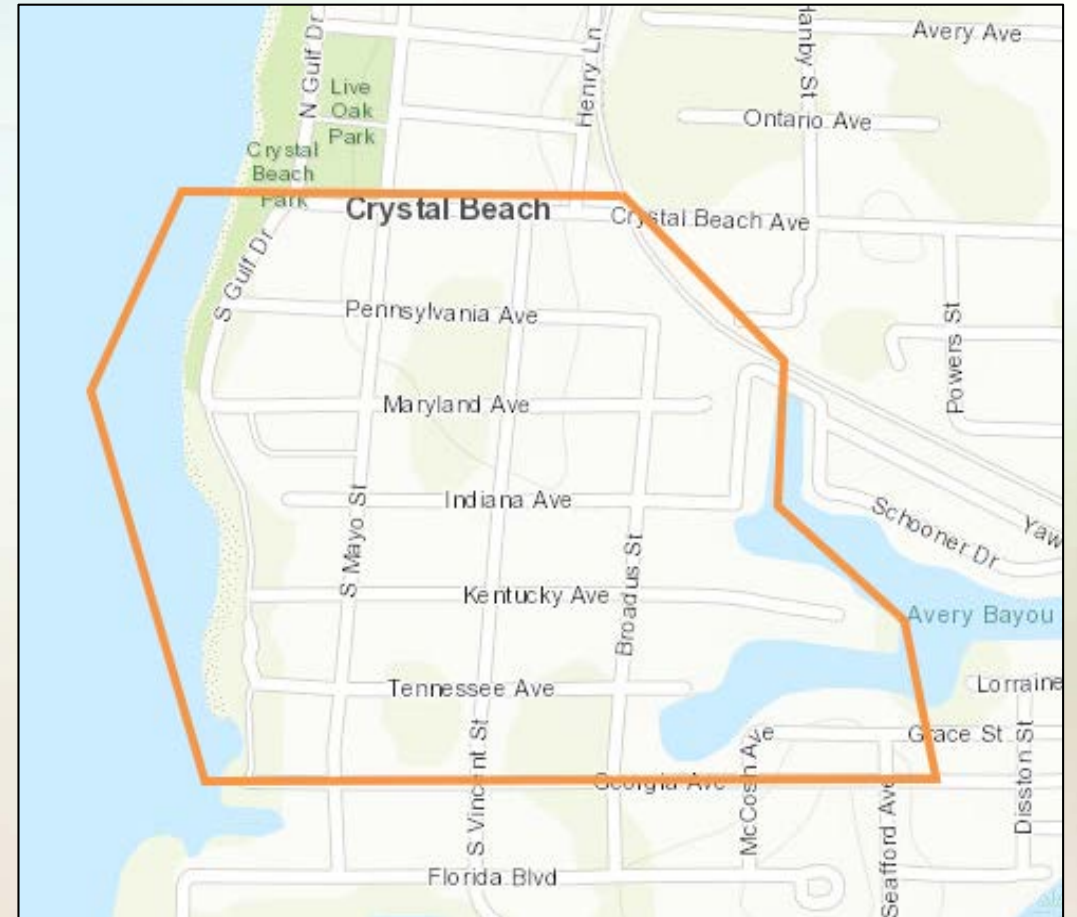
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **North Rena Drive Improvements (002227A)**
Stormwater conveyance system improvements to address flooding
- Project Timeline:
 - Design Near Completion
 - Construction Jan 2021 – April 2022
- Project Cost:
 - Construction \$1.2M
- Project Procurement Method:
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



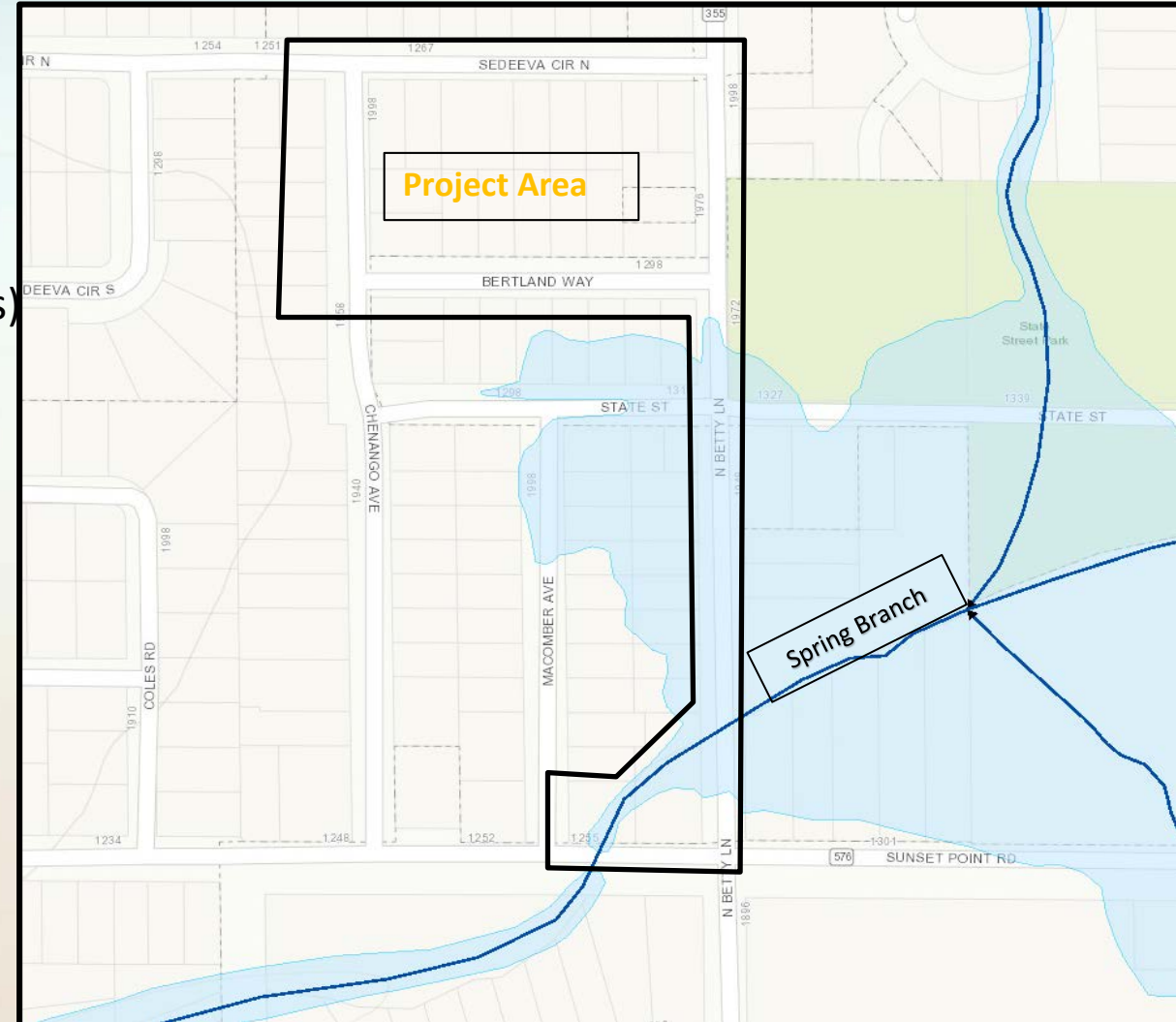
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Crystal Beach Drainage Improvements (003896A)**
Stormwater collection system, Green Infrastructure and outfall improvements to address flooding and ponding and enhance neighborhood.
- Project Timeline:
 - Preliminary Design FY19-20 (in house)
 - Design FY21-23
 - Construction FY24-25
- Project Cost:
 - Design \$400K
 - Construction \$4M
- Project Procurement Method:
 - CCNA RFP Bid
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Chenango-Sedeeva Stormwater Improvements (003895A)**
Reduce problematic street and yard flooding
- Project Timeline:
 - Preliminary Design Oct 2018 – June 2020 (in progress)
 - Design June 2020 – May 2021
 - Construction June 2021 – March 2022
- Project Cost:
 - Design \$83K
 - Construction \$750K
- Project Procurement Method:
 - Continuing Consulting
- Project Delivery Method:
 - Work Order for Construction



Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

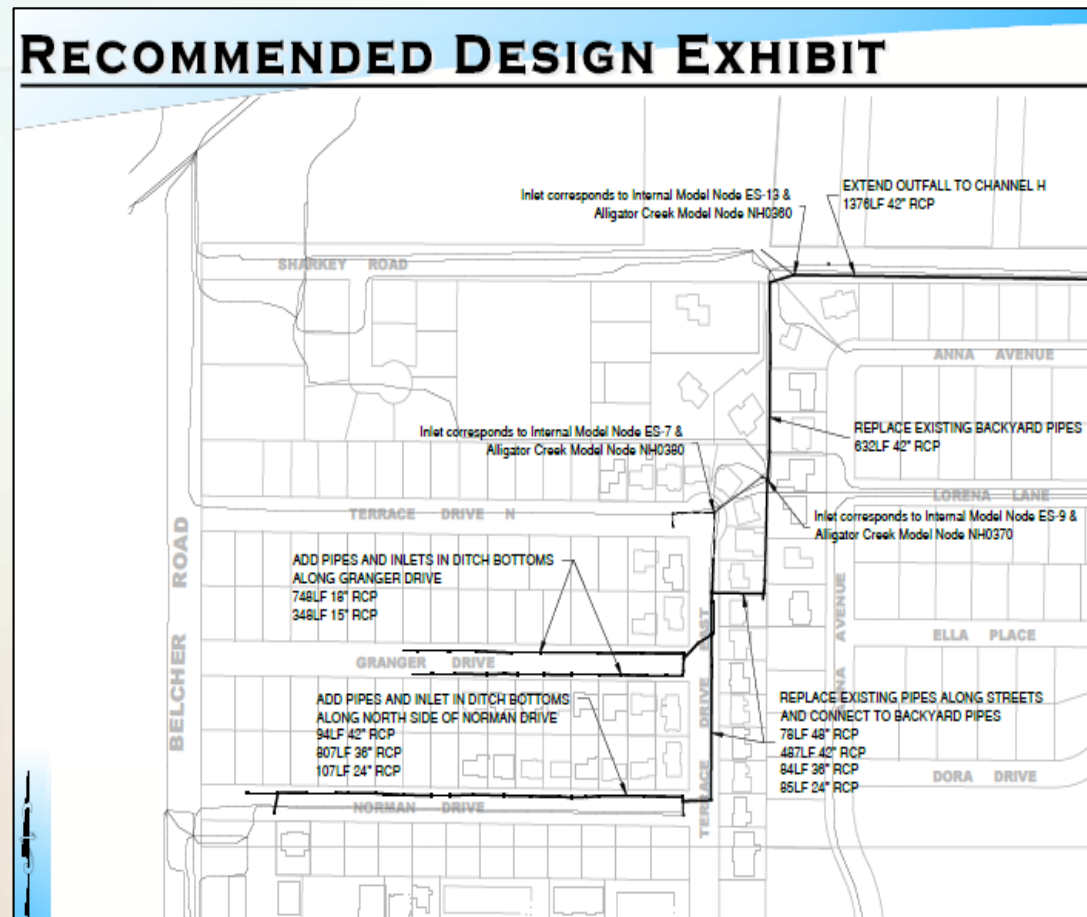
- **Taylor Lake Seawall Improvements (002228A)**
Replacement of failing seawall and drainage improvements along the south side of 8th Ave SW
- Project Timeline:
 - Design FY19-21 (in progress)
 - Construction FY21-22
- Project Cost:
 - Design \$450K
 - Construction \$1.7M
- Project Procurement Method:
 - Bid
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

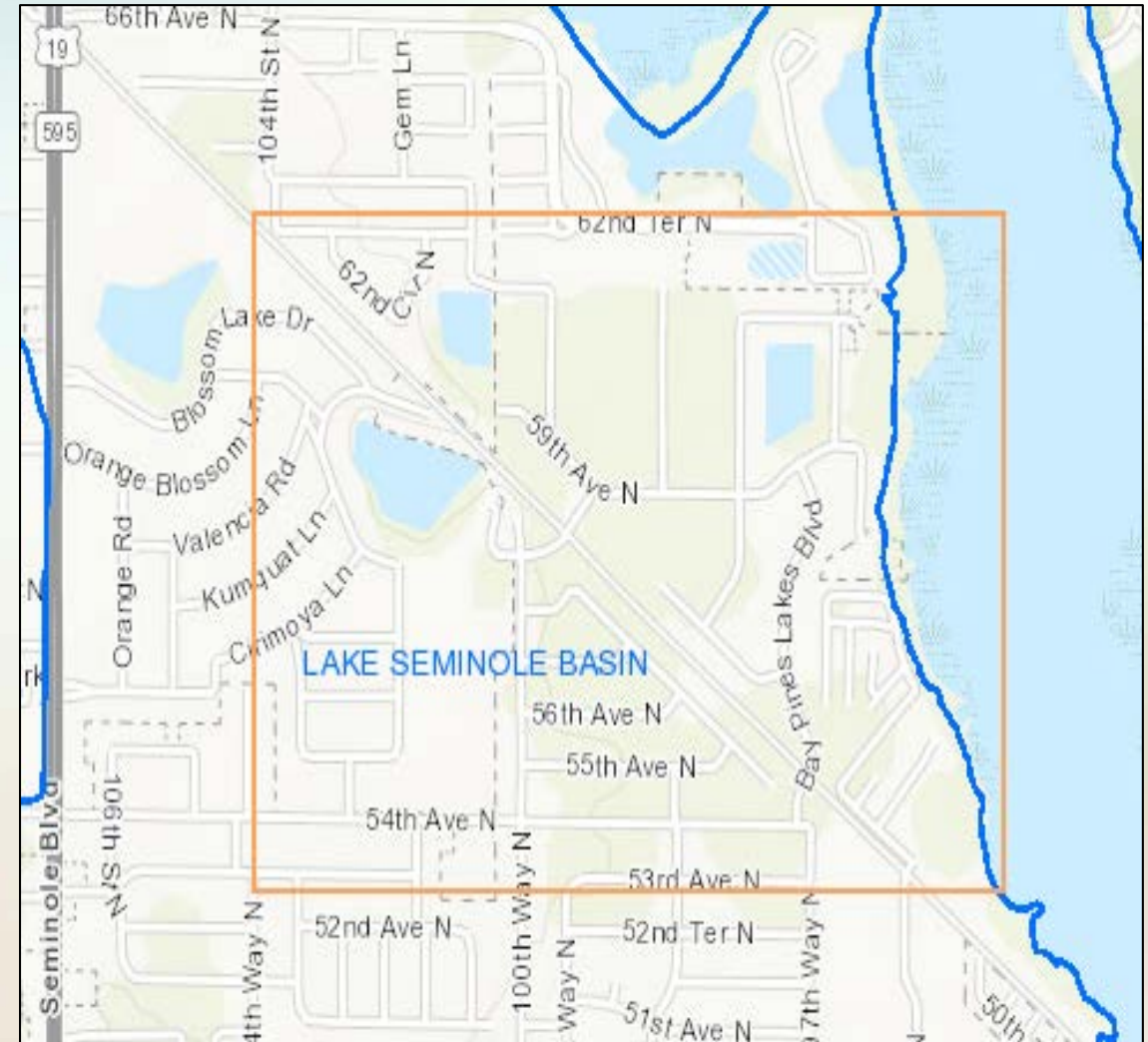
- **Granger Drive Drainage Improvements (001638A)**
Stormwater collection and outfall system improvements to address flooding

- Project Timeline:
 - Design Present – April 2021 (in progress)
 - Construction April 2021 – June 2022
- Project Cost:
 - Construction \$1.1M
- Project Procurement Method:
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



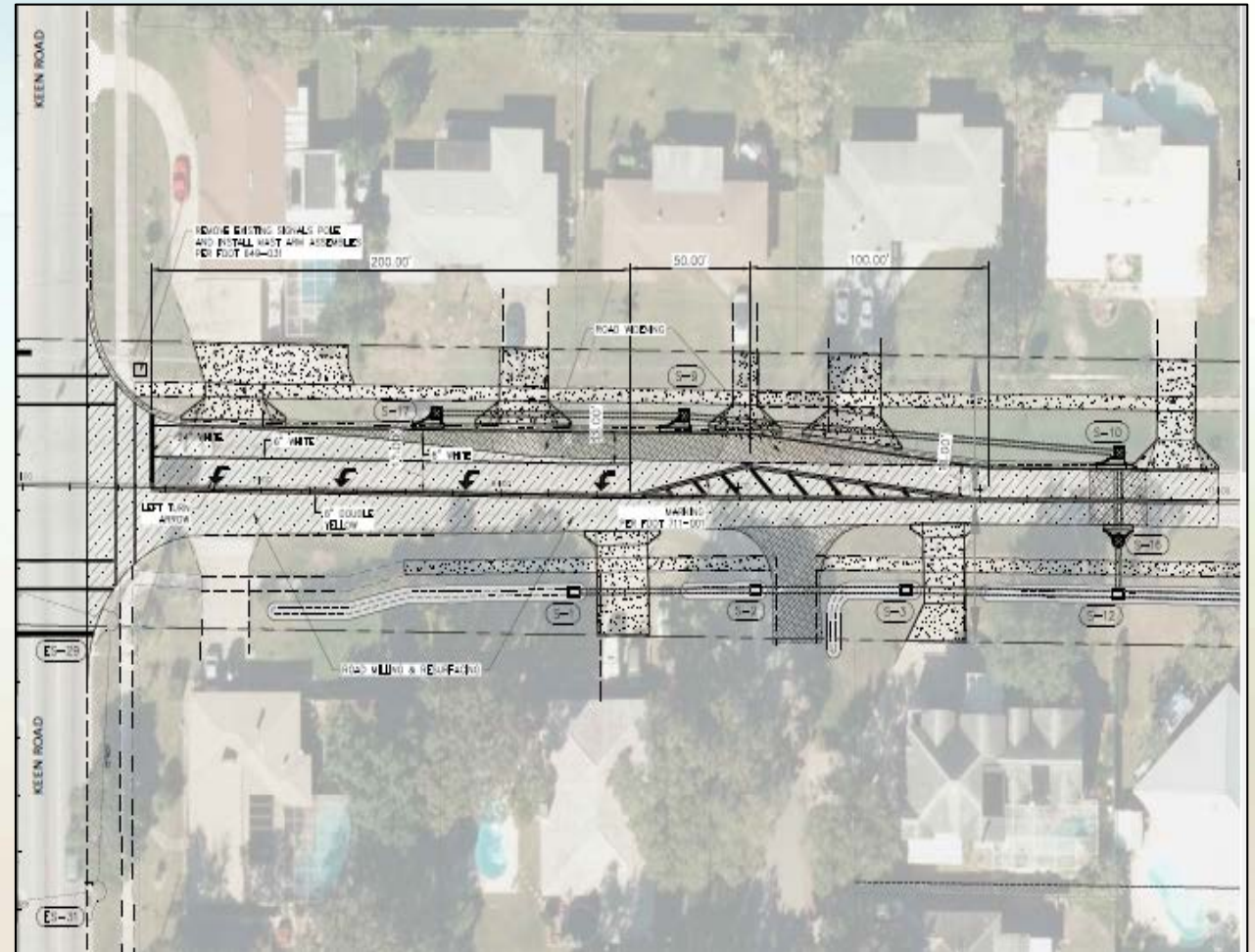
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **98th – 100th Way Drainage Improvements (003899A)**
Stormwater management improvements to address flooding and improve water quality in the vicinity of 98th Way, 100th Way, and 59th Ave in Seminole
- Project Timeline:
 - Preliminary Design FY19 (in-house)
 - Potential Acquisition FY19
 - Design FY20
 - Construction FY21-22
- Project Cost:
 - Acquisition/Design \$620K
 - Construction \$1.2M
- Project Procurement Method:
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



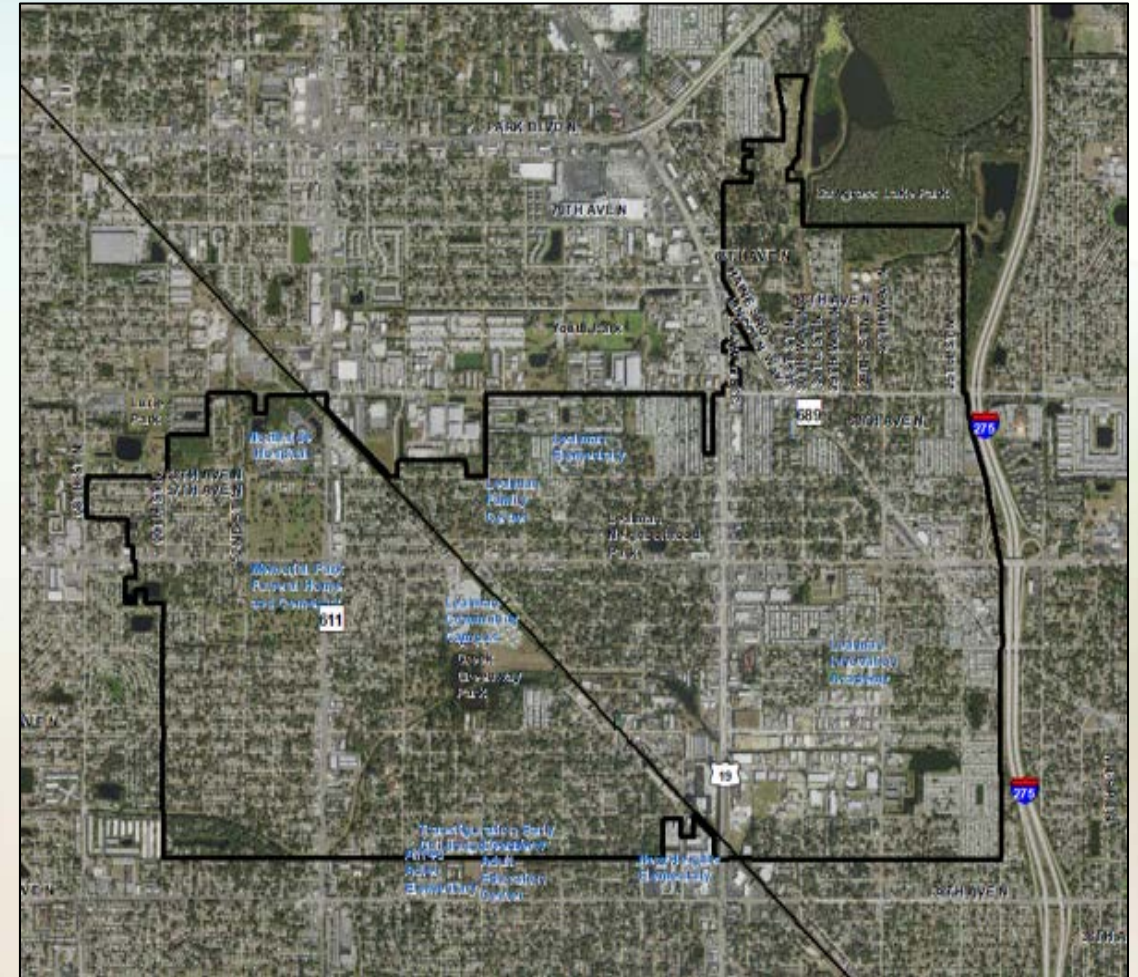
Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Lakeview Rd and Keene Rd Intersection and Drainage Improvements (003898A)**
Intersection and drainage improvements to address residential flooding
- Project Timeline:
 - Preliminary Design FY19 (in-house)
 - Design FY20
 - Construction FY21-22
- Project Cost:
 - Design \$200K
 - Construction \$2M
- Project Procurement Method:
 - Bid
 - Continuing Consulting
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Lealman Regional Stormwater Facility (003001C)**
Preliminary Design of regional stormwater facilities for the Lealman Community Redevelopment Area
- Project Timeline:
 - Preliminary Design FY19-20 (In process)
 - Acquisition FY21-22
 - Design FY22-24
 - Construction FY24-26
- Project Cost:
 - Design TBD
 - Construction TBD
- Project Procurement Method:
 - Bid / CCNA RFP
- Project Delivery Method:
 - Design/Bid/Build



Pinellas County Public Works Stormwater & Vegetation Capital Improvement Project

- **Roosevelt Channel 5 Stormwater Facility Improvements (003130A)**

Expand existing stormwater management facility by incorporation of borrow pit to the east to provide additional treatment volume

- Project Timeline:

- Design Oct 2019 (in progress)
- Construction Nov 2019 – Dec 2020

- Project Cost:

- Construction \$1.9M

- Project Procurement Method:

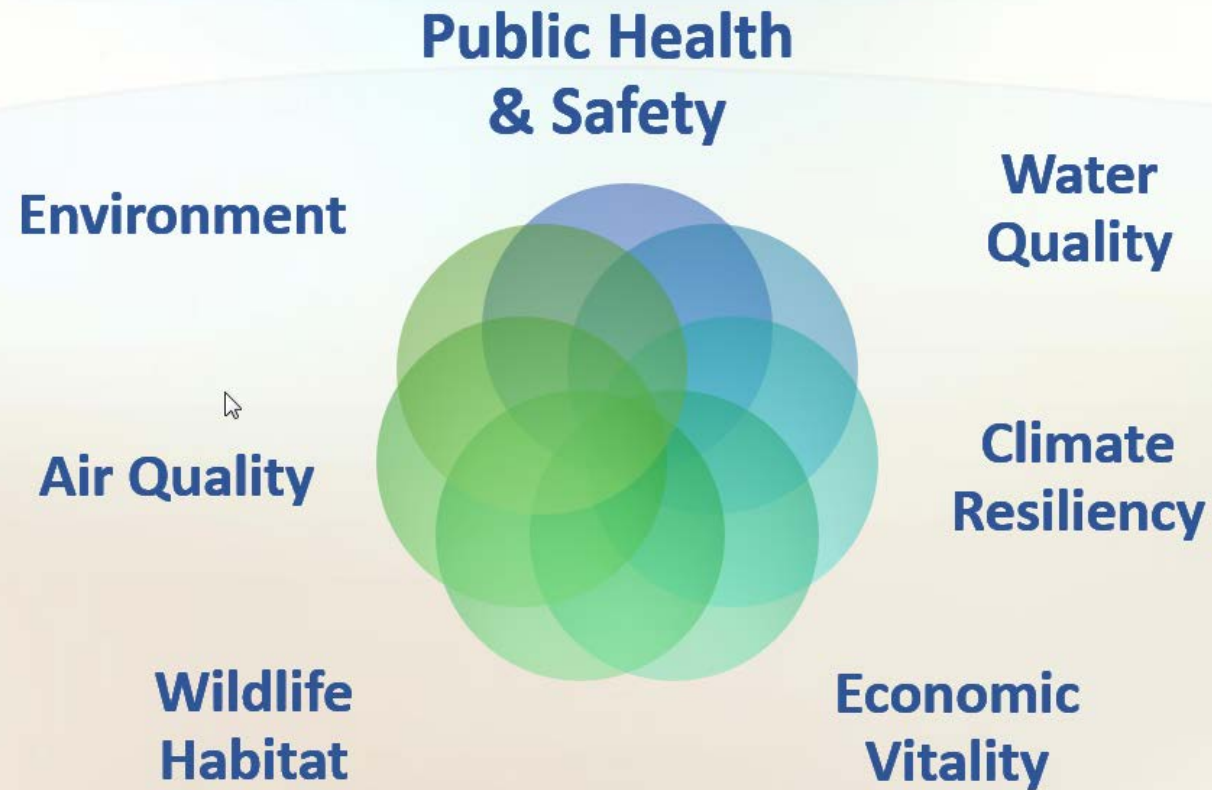
- Continuing Consulting

- Project Delivery Method:

- Design/Bid/Build



Recap



Recap

Partnership Goals

- **Avoid and mitigate** spills, overflows and releases of sewage into the environment, particularly water bodies
- **Seek opportunities** to address drainage and stormwater issues that impact the sewer system
- **Increase capacity and resiliency** of collective sewer system and wastewater treatment infrastructure

Recap

CIP Projects

- **Presenters:**
 - Ray Boler | City of Safety Harbor
 - Brett Warner | City of St. Pete Beach
 - Michael Helfrich | City of Treasure Island
 - David Porter & Richard Gardner | City of Clearwater
 - John Palenchar | City of St. Petersburg
 - Dennis Simpson, Megan Ross, Paul Miselis | Pinellas County

Thank You



Wastewater • Stormwater

Partnership

www.pinellascounty.org/taskforce