



# **Stormwater Projects / Program Report**

## **Tampa City Council Update**

### **No. 19 - September 2, 2021**

#### **A) Major Capital Improvements**

Projects 1-5 are regional multi-year flooding relief projects for the City of Tampa. Each project fact sheet includes a description, location map, and timeline status. Each of these projects is in various stages of development and will continue for a number of years due to the complexity and comprehensive nature of the project. Project 6 incorporates the Miscellaneous Neighborhood Projects that typically have a six (6) month or less construction timeline and each have their own fact sheet.

#### **Project List CIP = \$251,285,000**

1. Upper Peninsula Flooding Relief
2. North Tampa Closed Basin Flooding
3. Cypress Street Outfall Extension
4. Southeast Seminole Heights Flooding Relief
5. Lower Peninsula Flooding Relief
6. Miscellaneous Capital Improvements

#### **B) Stormwater Capital Improvement Bond Program Report**

#### **C) Stormwater Service Assessment Program \$14,000,000**

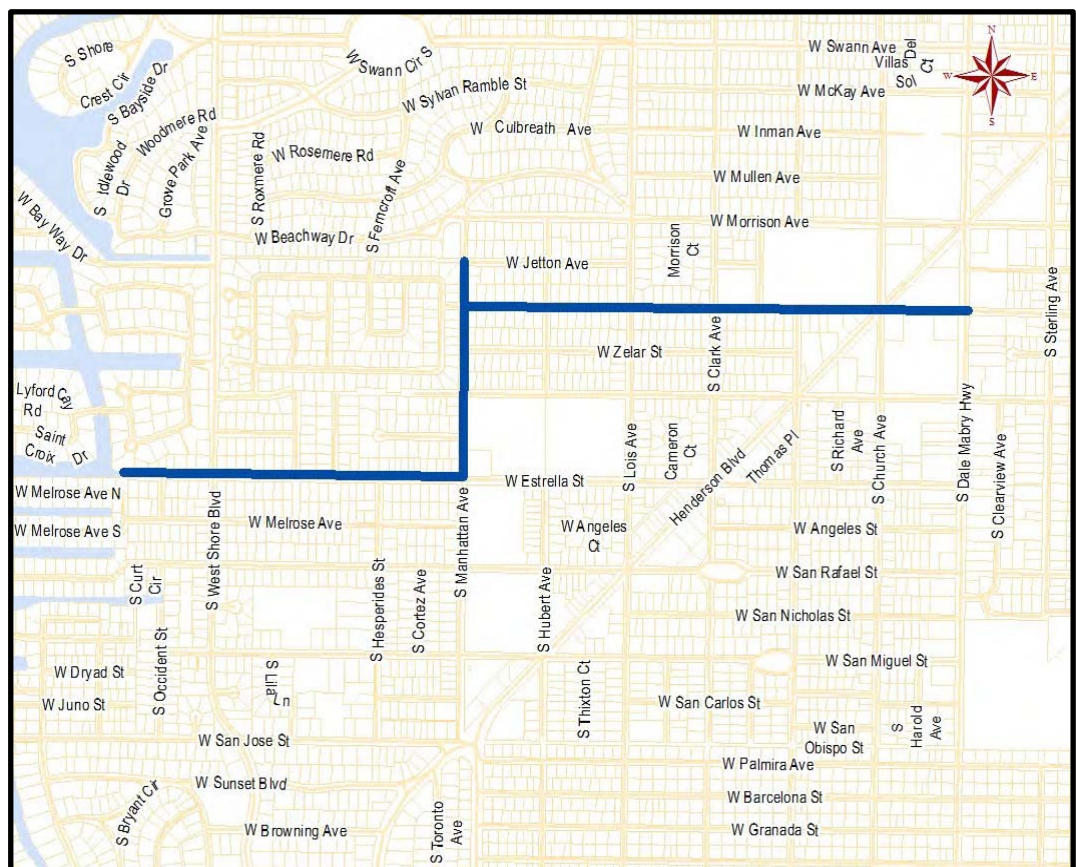
**(Dale Mabry Trunkline)**

### Project Description:

This project will alleviate the severe chronic flooding along Dale Mabry Highway between Henderson Blvd and Neptune Street. The highway is part of the primary evacuation route for South Tampa. Existing pipes will be connected to the trunkline thereby providing basin wide flooding relief.

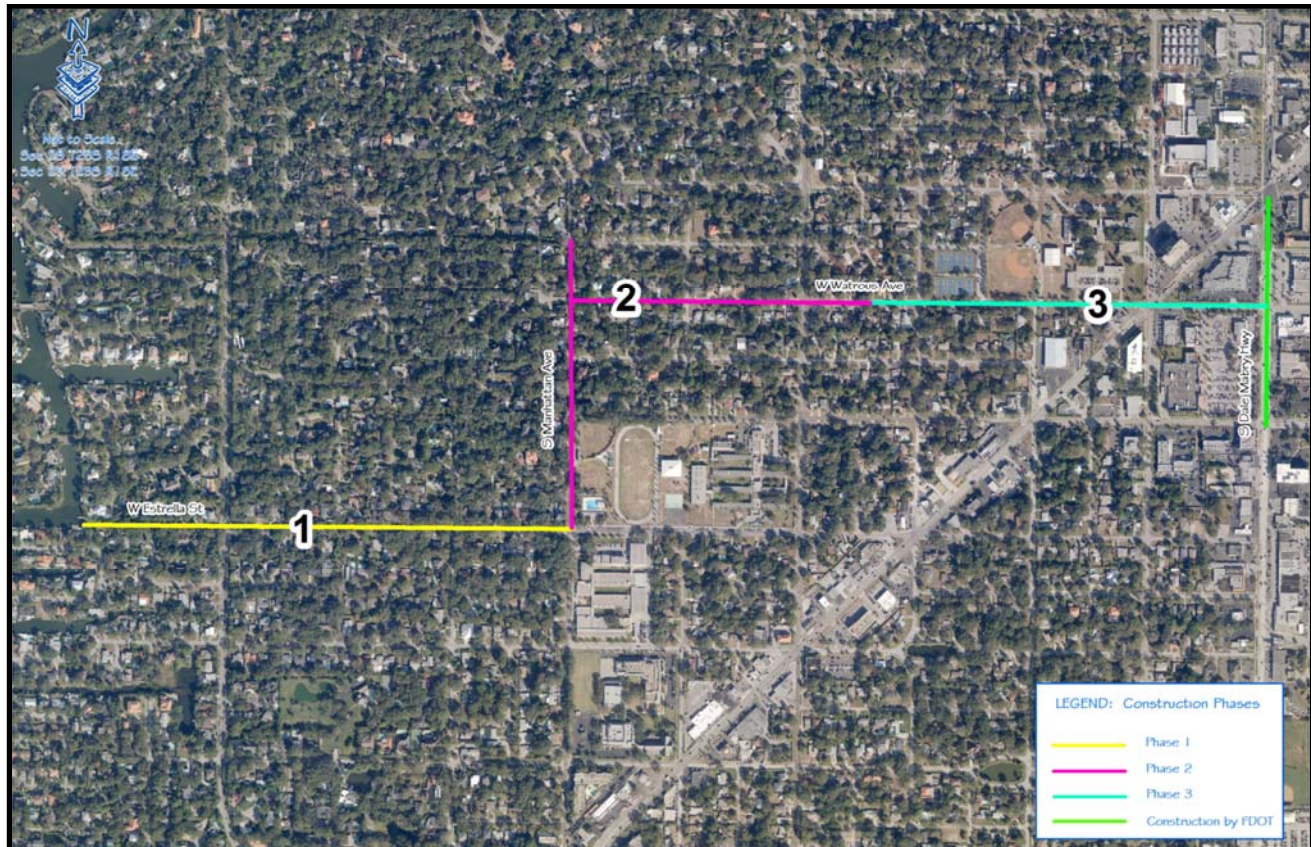
Dale Mabry Trunkline project consists of the construction of a box culvert from Dale Mabry/Henderson/Neptune to a new outfall at Estrella Street. The system will also interconnect to improvements along the Watrous Canal, thus providing two outfalls for flooding relief.

### Location Map:





## Dale Mabry Trunkline Project Phases



### Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Design/Build	Kimmins	\$37M	COT/SWFWMD	FY18	FY21

### Timeline:

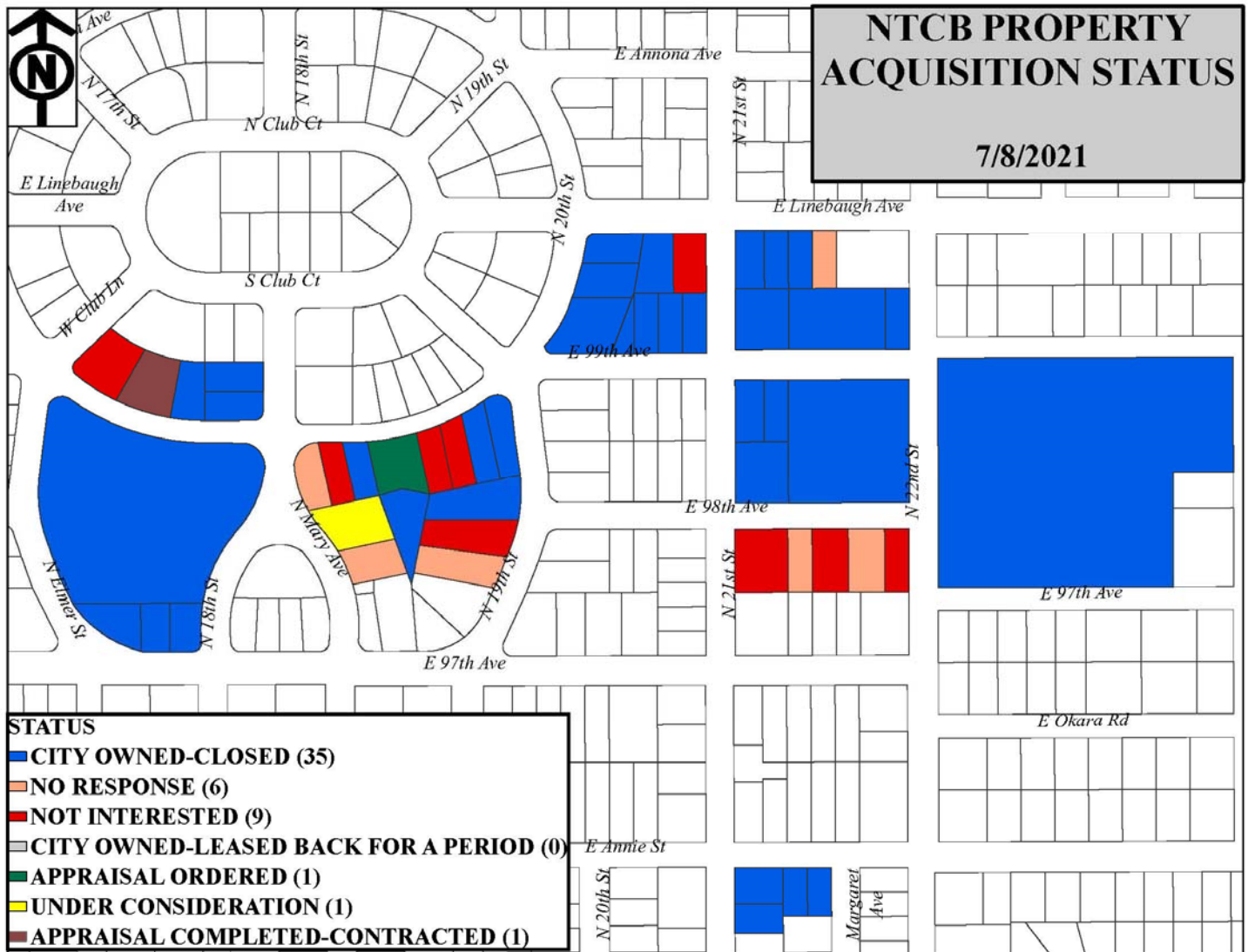
- Construction started June 25, 2018, and the projected completion is January 2021.
- Construction completed in November 2020.



**City Project #: 0000403**



## Property Acquisition Map:



### Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Property Acquisition	In-House	\$1M/ Year	COT	FY16	FY22
Construction	In-House/bid	\$2M	COT	FY19	FY23

## Timeline:

- The City of Tampa Real Estate Division is in the process of acquiring the properties as identified by the Mobility Department's North Tampa Closed Basin Study. Please see the property acquisition map above.
- The Real Estate Division is currently working with multiple potential sellers.
- Property acquisition is ongoing.
- The construction of David E. West pond and piping system is completed.
- Annie pond is in the construction phase.
- Several of the projects are in the design phase.



**City Project #: 1001018**

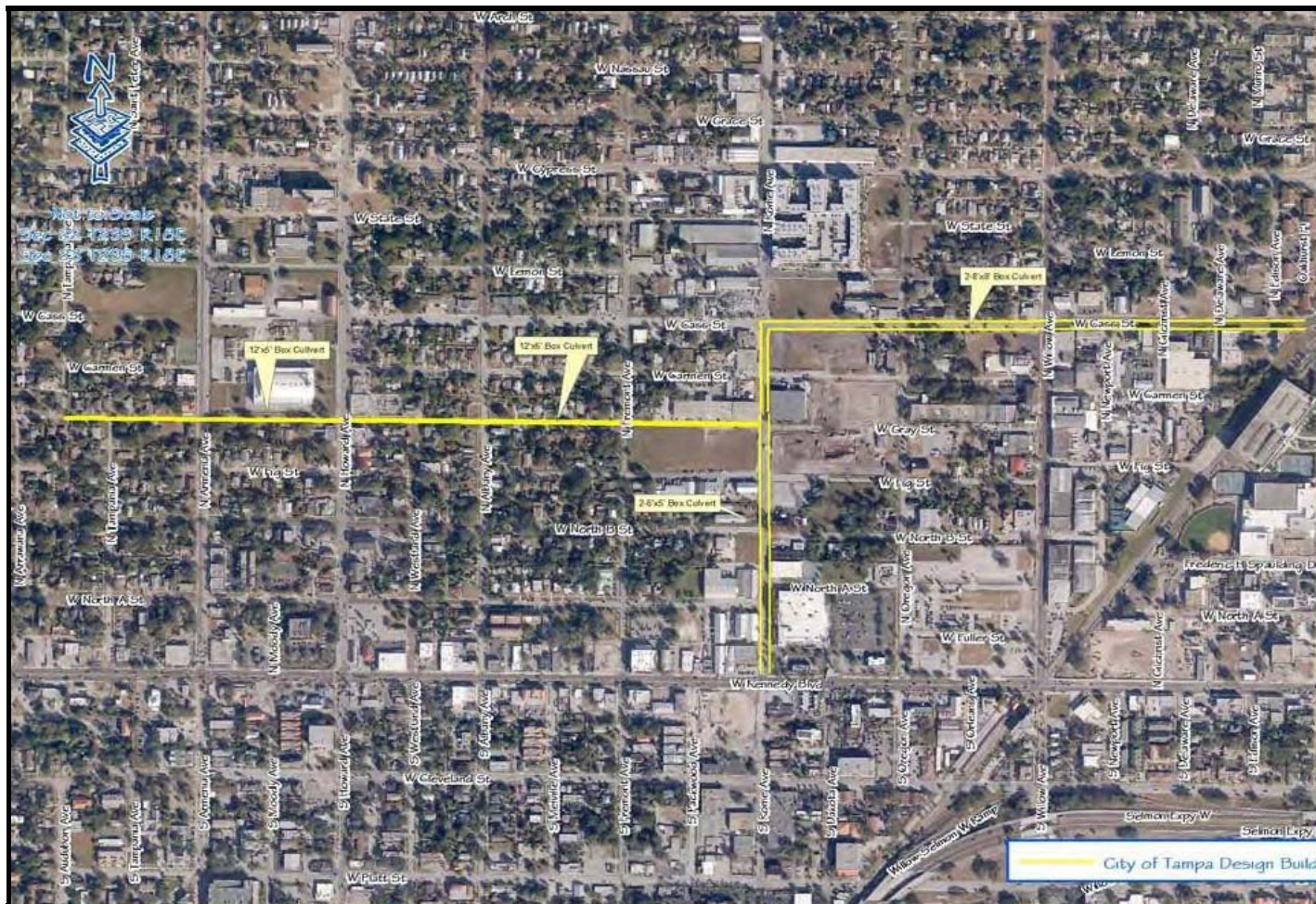
The drainage basin is generally bounded by Interstate 275 on the north, Habana Avenue on the west, Hyde Park Avenue on the east and Swann Avenue on the south. The total basin area is approximately 860 acres and outfalls to the Hillsborough Bay. Several areas within the northern portion of the basin (north of Kennedy Boulevard) have experienced numerous incidences of flooding, which has led to flood damage claims.

### Location Map:





## Cypress Street Outfall:



## Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Design/Build	Woodruff & Sons	\$32 M	COT/SWFWMD	FY17	FY22

## Timeline:

- Design and Permitting is 100% completed.
- The SWFWMD Board approved the GMP in April 2019.
- Tampa City Council approved the GMP in June 2019.
- The construction is underway with an expected completion date of November 2021.





## 4. Southeast Seminole Heights Flooding Relief

**City Project #: 1000773**

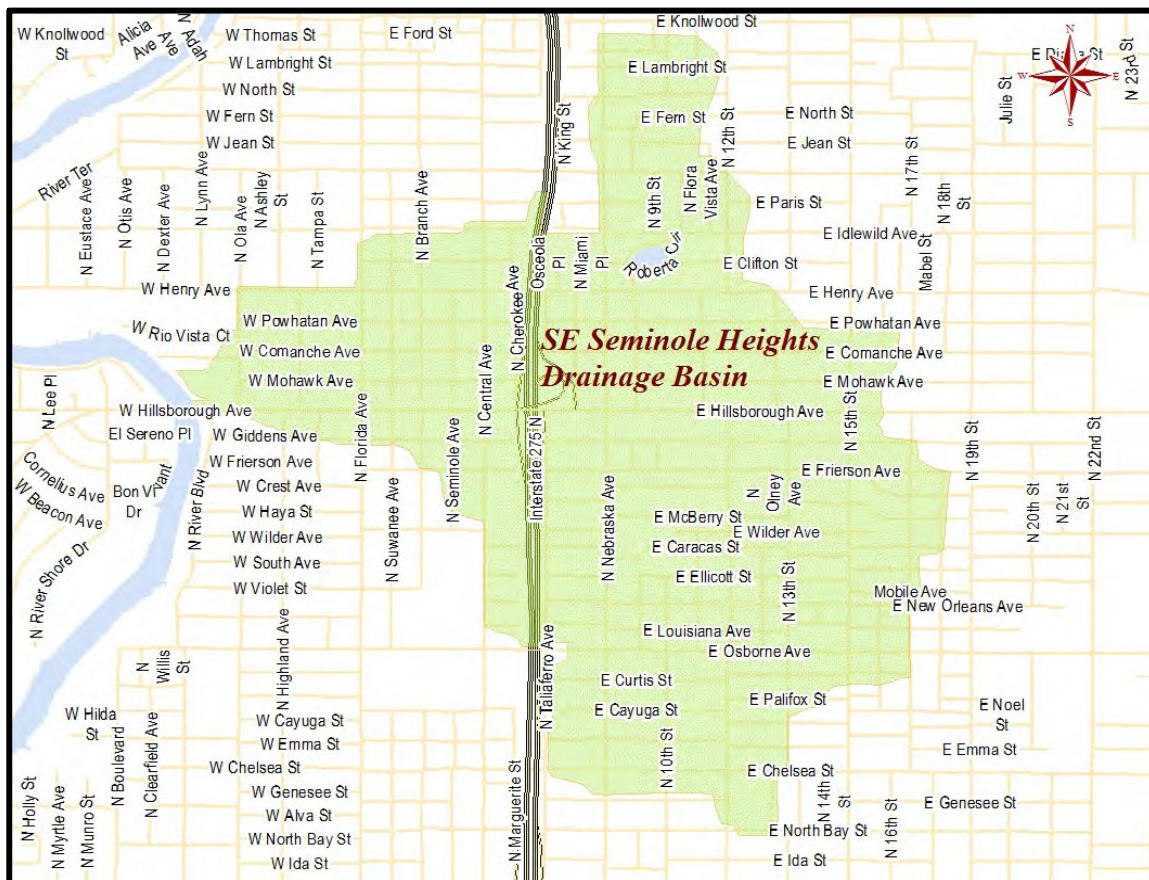
### **Project Description:**

The Southeast Seminole Heights Drainage Basin encompasses 779 acres of urban area that discharges into the Hillsborough River south of the dam. The basin area extends northerly from East Chelsea Street east of I-275 freeway to East Diana Street and easterly to North 18th Street. To the west of I-275, the basin narrows and extends from Giddens Avenue to East North Street. The Basin is part of a historic Tampa neighborhood that had its beginnings in the early 1900's.

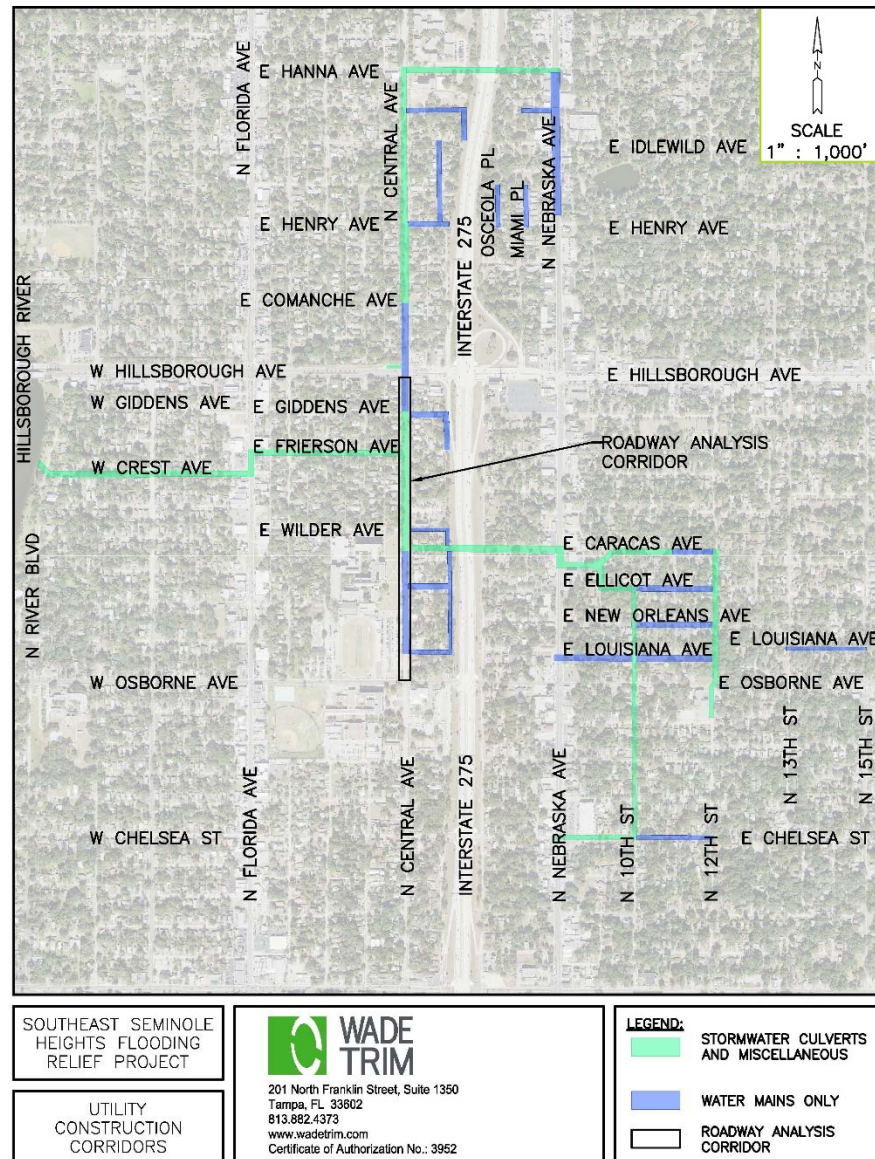
Southeast Seminole Heights Basin has numerous flooding locations, failing and undersized conveyance systems throughout the basin. A recent drainage study identified several potential stormwater improvement projects to alleviate flooding.

A feasibility study will be performed to assess the potential drainage improvement projects as recommended in the previous drainage study. Individual improvement projects will subsequently be designed and constructed throughout the basin areas to improve drainage conditions.

### **Location Map:**



## Southeast Seminole Heights:



## Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Planning Study	LWES	\$90K	COT	FY16	FY16
Feasibility Study	FDC	\$45K	COT	FY17	FY18
Design & Construction	Nelson/ Wade Trim	\$35M	COT/SWFWMD	FY19	FY23

## Timeline:

- The Planning and Feasibility studies are complete.
- The design is 100% complete.
- The SWFWMD Governing Board approved the GMP in July 2021.
- The target date for presenting the GMP for Construction to City Council is August 2021.
- The target date for the start of construction is Oct. 2021.





## **5. Lower Peninsula Flooding Relief**

**City Project #: 1000178**

### **Project Description:**

A regional watershed model is needed to provide a baseline for capital project improvement planning and design. The area has numerous flooding locations, failing and undersized conveyance systems throughout the 6,000-acre watershed.

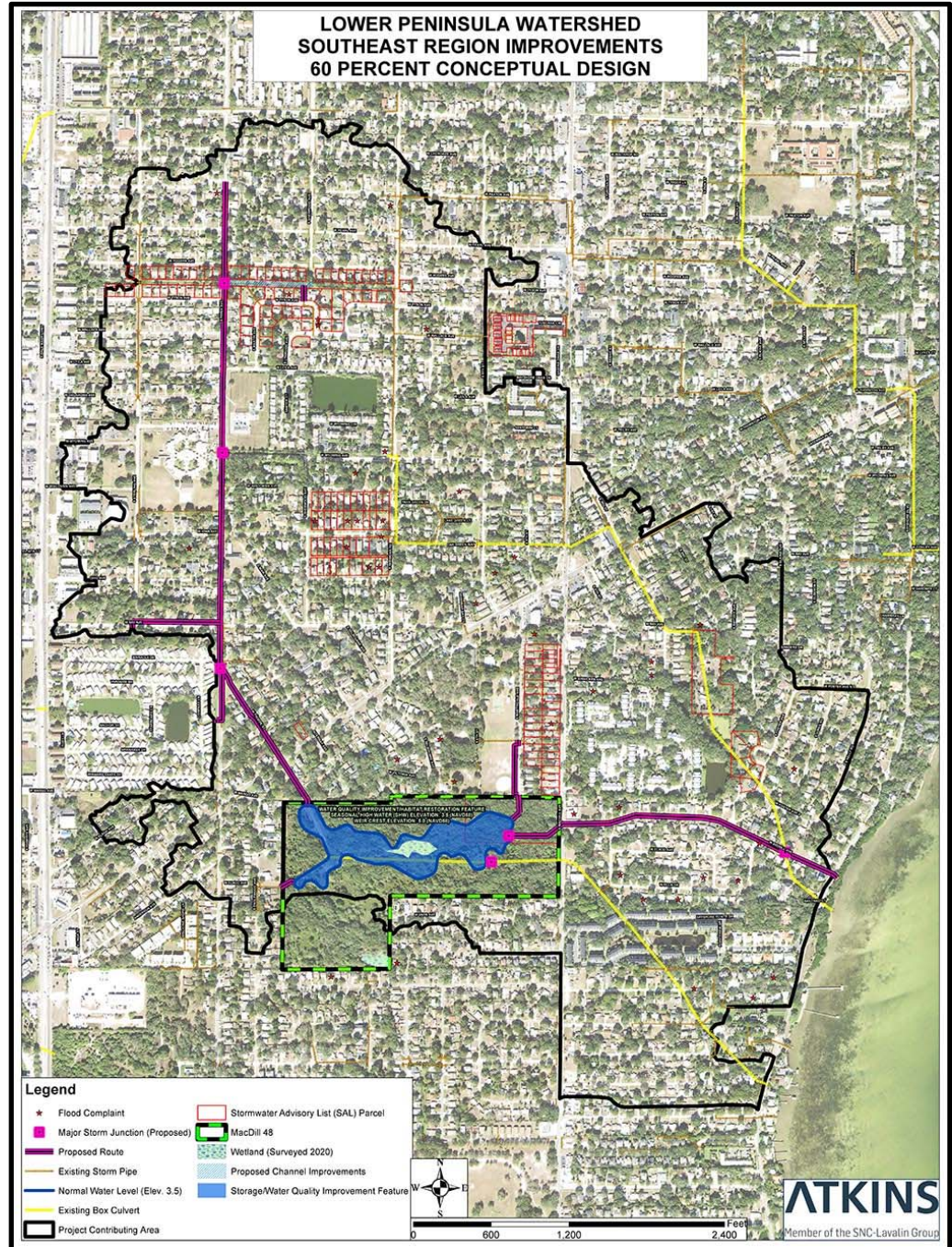
The purpose of the project is to develop a baseline for capital improvement planning and design that provides conceptual solutions to frequent flooding associated with undersized stormwater pipes and relic ditch systems in the region. It is the City's desire to pursue cooperative funding from the South West Florida Water Management District (SWFWMD) for these improvements; therefore, the watershed study must meet SWFWMD's requirements for funding.

### **Location Map:**





## Southeast Region



### Summary of Project Costs:

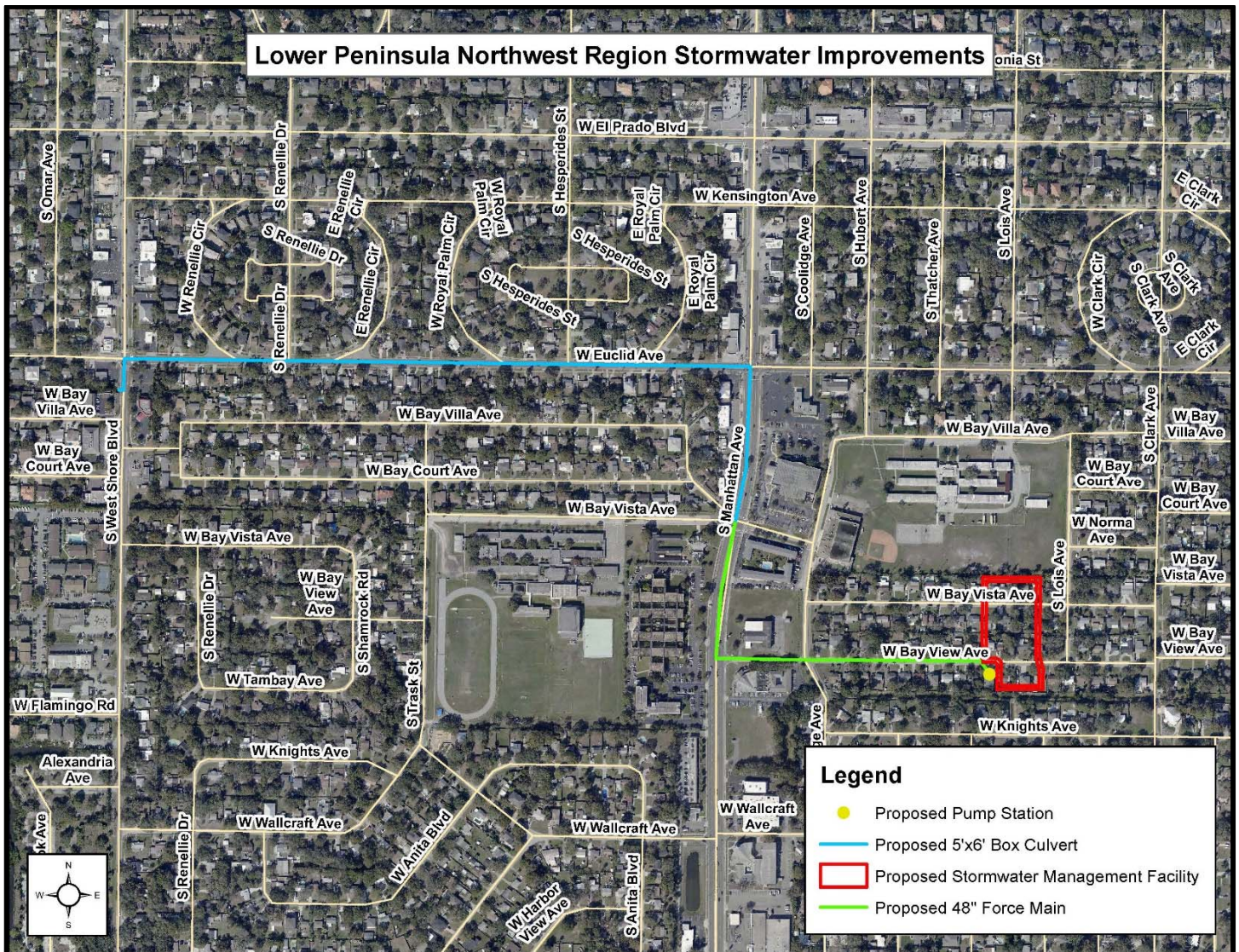
Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Southeast Region Design	Atkins	\$4M	COT/SWFWMD	FY20	FY20
Southeast Region Construction	Kimmins	\$28M	COT/SWFWMD	FY22	FY24

### Timeline:

- The existing and proposed condition models are complete.
- The Southeast Region Design/Permitting is 60% complete.
- The target date for the start of construction is FY22.



## Northwest Region



### Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
LPW Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Property Acquisition	City of Tampa	\$8M	COT/SWFWMD	FY22	FY24
Design	RFQ	\$3M	COT/SWFWMD	FY25	FY25
Construction	Bid	\$31M	COT/SWFWMD	FY26	FY27



## Central Region



### Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
LPW Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Property Acquisition	City of Tampa	\$9M	COT/SWFWMD	FY24	FY26
Design	City of Tampa	\$100K	COT/SWFWMD	FY26	FY26
Construction	RFQ	\$1M	COT/SWFWMD	FY27	FY27





## 6. Miscellaneous Capital Improvement **Project Status**

**Tampa City Council Update No. 19 - September 2021**

Construction timelines are typically six (6) months or less for neighborhood projects. For additional project descriptions, please see the project fact sheets following this project status report.

PROJECT STATUS KEY	
	Design
	Design Complete and In Construction Queue
	Under construction
	Construction Complete

CAPITAL IMPROVEMENT PROJECTS	DISTRICT	ESTIMATE
<b>Projects Assigned to Construction Contracts</b>		
1. Copeland Park Force Main	7	\$600,000

<b>Projects Bid through CAD</b>		
2. 2nd Street from Interbay to Bay	4	\$200,000
3. FY19/FY20 Annual CIPP Rehabilitation	Citywide	\$1,200,000
4. David E. West Park Pond Enhancements	7	\$1,000,000
5. 43rd Street Outfall Regional Drainage Improvements, PH III	5	\$7,200,000
6. Eastridge Pumping Station Rehabilitation	7	\$700,000
7. Anita Subdivision Drainage Improvements PH II	4	\$600,000
8. 56th Street and Broadway Avenue Flooding Relief	5	\$2,000,000
9. Hamilton Creek Water Quality Improvement	6	\$500,000
10. Lamb Canal Rehabilitation	4	\$3,500,000
11. Ditch Rehabilitation Program	Citywide	\$1,000,000
12. Hyde Park Groundwater Diversion Ph 2 (Newport, Willow, Orleans and Watrous)	4	\$2,000,000
13. Beach Park Flooding Relief	6	\$1,000,000
14. Manhattan: Vasconia to Bay to Bay Flooding Relief	4	\$7,500,000
15. Annual Box Culvert Rehabilitation	Citywide	\$3,000,000

CAPITAL IMPROVEMENT PROJECTS	DISTRICT	ESTIMATE
<b>Job Order Contracting</b>		
16. Copeland Park Pumping Station	7	\$200,000
17. Lantana/Poinsettia Pumping Station	7	\$200,000
18. El Portal & Newport Pumping Station	6	\$325,000

<b>Projects Assigned to Mobility Department In-House Crews</b>		
19. Idell Street Roadway Improvements PH II	5	\$75,000
20. Concordia Pond	4	\$125,000
21. Binnicker at 4th Street	4	\$50,000
22. Neptune/Treasure Drainage Improvement	6	\$75,000
23. Ballast Point Blvd and MacDill Ave.	4	\$125,000
24. Chelsea Street at 44th Flooding Relief	5	\$90,000
25. Everina Street from Carrington to Coachman	4	\$200,000
26. Okara and 26th St. Force Main	7	\$90,000
27. Terrace Park Pond Outfall (aka Bougainvillea Pond Outfall)	7	\$75,000
28. Howard and North B St. Flooding Relief	4&5	\$75,000
29. 36th St. from Osborne to Palifox	5	\$90,000
30. Webster St. from Osborne to Palifox	5	\$90,000
31. Troy St. from Osborne to Palifox	5	\$90,000
32. NTCB - 17 <sup>th</sup> & Annona Flooding Relief	7	\$75,000
33. NTCB - 21st & Annie Pond	7	\$90,000
34. NTCB - Elmer Pond Expansion	7	\$50,000
35. NTCB - 99th Ave. Pond Expansion	7	\$50,000
36. 22nd St. & McBerry St. Flooding Relief	5	\$75,000
37. Parkland Estates: Audubon & Fountain	4	\$50,000
38. 2nd St. from Wyoming to Interbay	4	\$50,000
39. Clark & Fair Oaks	4	\$95,000
40. Church & Fair Oaks	4	\$25,000

## Copeland Park Force Main

### Flooding Relief FY2018; District 7

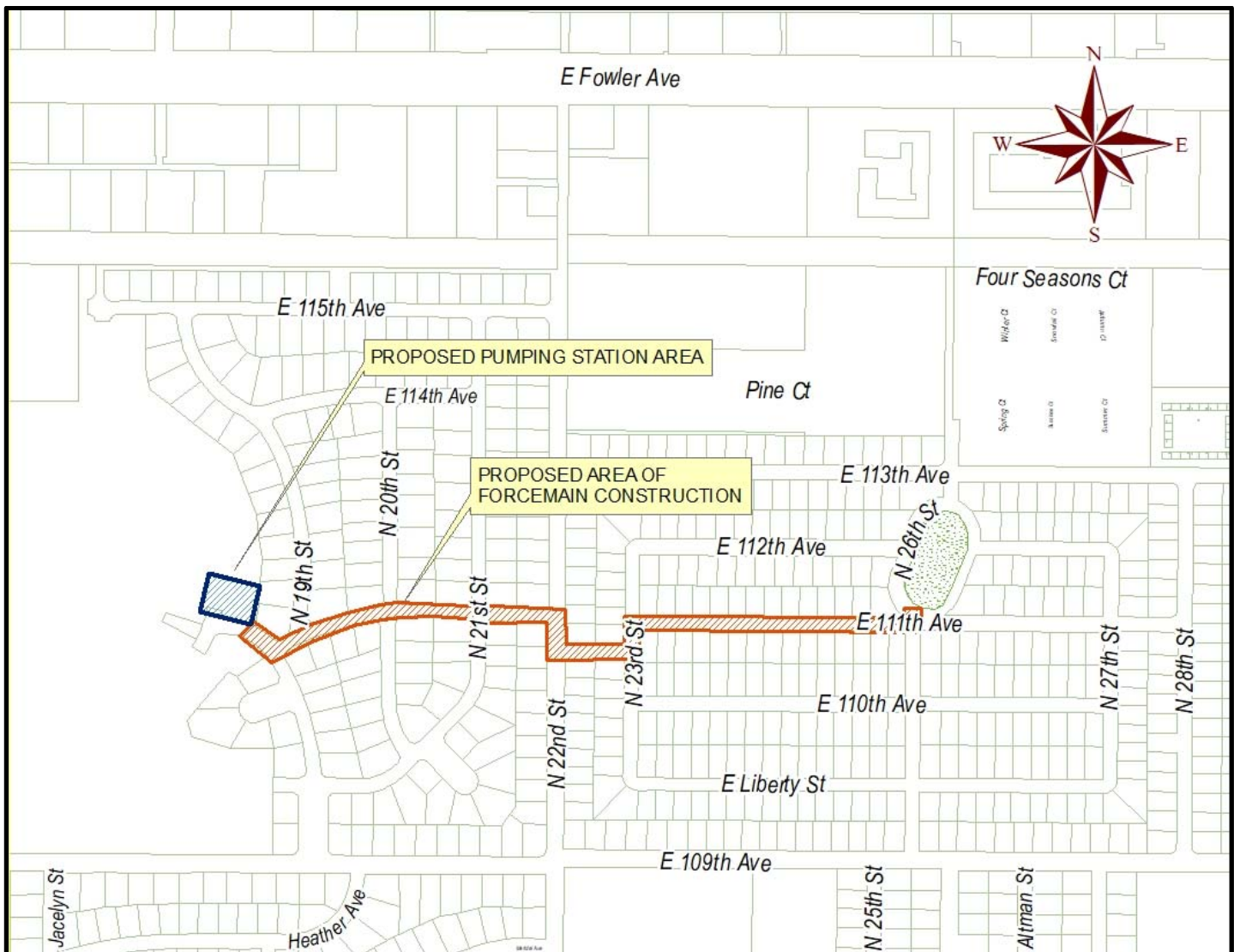
Estimated cost: \$600K

#### Project Description:

Currently a temporary pump is utilized to drain the low-lying area in Copeland Park. A permanent pumping station is proposed to replace the temporary pump and provide a more reliable system to better alleviate the flooding in the area.

The project consists of construction of new force main connecting Copeland Pumping Station to the existing drainage system on E 111<sup>th</sup> Ave. and N 26<sup>th</sup> St. area.

#### Project Map





## 2<sup>nd</sup> Street from Interbay to Bay

### Flooding Relief FY2017, District 4

Estimated cost: \$200K

#### Project Description:

New drainage system to is proposed along 2<sup>nd</sup> Street to connect to box culvert along West Bay Avenue.

#### Justification:

Severe Street flooding along South 2<sup>nd</sup> Street from Interbay Boulevard to West Bay Avenue.

#### Related Issues:

S. 2<sup>nd</sup> Street dead ends before West Bay Avenue. Easement may be required to connect to existing box culvert along West Bay Avenue.

Project Map & Photo



## **FY19/FY20 Annual CIPP Rehabilitation**

### **Citywide**

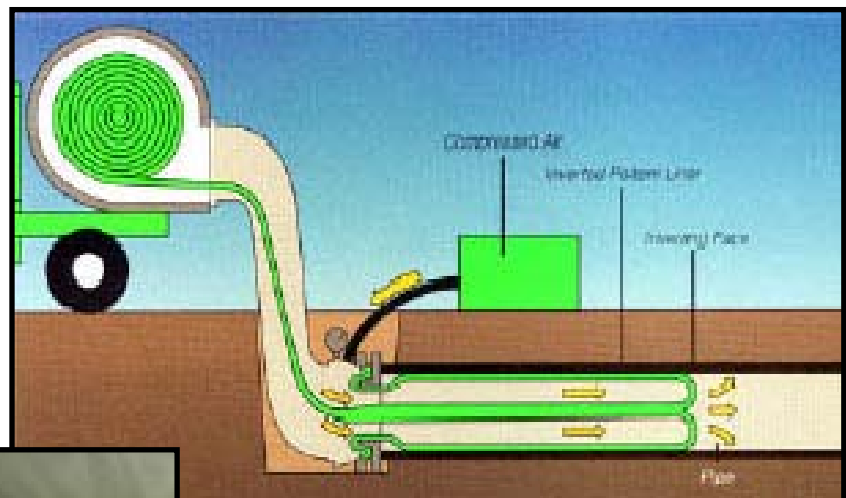
FY19 Estimated cost: \$600K; FY20 Estimated cost: \$600K

#### **Project Description:**

The scope of work includes labor, materials, and equipment to rehabilitate gravity stormwater pipes from 12-inch to 48-inch diameter by installation of cured-in-place pipe liner.

#### **Justification:**

The project provides rehabilitation of deteriorated stormwater pipe systems.



#### **Project Photos**





## David E. West Park Pond Enhancements

### Water Quality Improvement/Flooding Relief FY2017, District 7

Estimated cost: \$1M

#### **Project Description:**

The project consists of the construction of a stormwater pond, pipes, and inlets on City lands. The pond will be hydraulically equalized with an existing stormwater pond, thus providing additional back-up volume to relieve downstream flooding.

#### **Justification:**

Attenuation storage is needed in this area because it is a closed basin with limited receiving capacity in the receiving sink. Multiple flooding complaints have been received.

**Project Map**





## **43<sup>rd</sup> Street Outfall PH III**

### **Regional Drainage Improvement - FY2017, District 5**

Estimated cost: \$7.2M

#### **Project Description:**

The project consists of the construction of a 48-inch RCP pipe from the Phase 2 regional stormwater pond to the 43<sup>rd</sup> Street Outfall just upstream of McKay Bay. Additionally, a culvert upgrade will be constructed at the terminus of the 43<sup>rd</sup> Street ditch to reduce flooding on adjacent properties.

#### **Justification:**

The project provides a new secondary outfall to convey runoff from the Phase 2 regional pond to the 43<sup>rd</sup> Street Outfall. Phase 3 improvements provide additional flood relief for properties and roadways that are severely impacted.

#### **Project Map**





# Eastridge Pumping Station Rehabilitation

## Flooding Relief FY2018, District 7

Estimated cost: \$700K

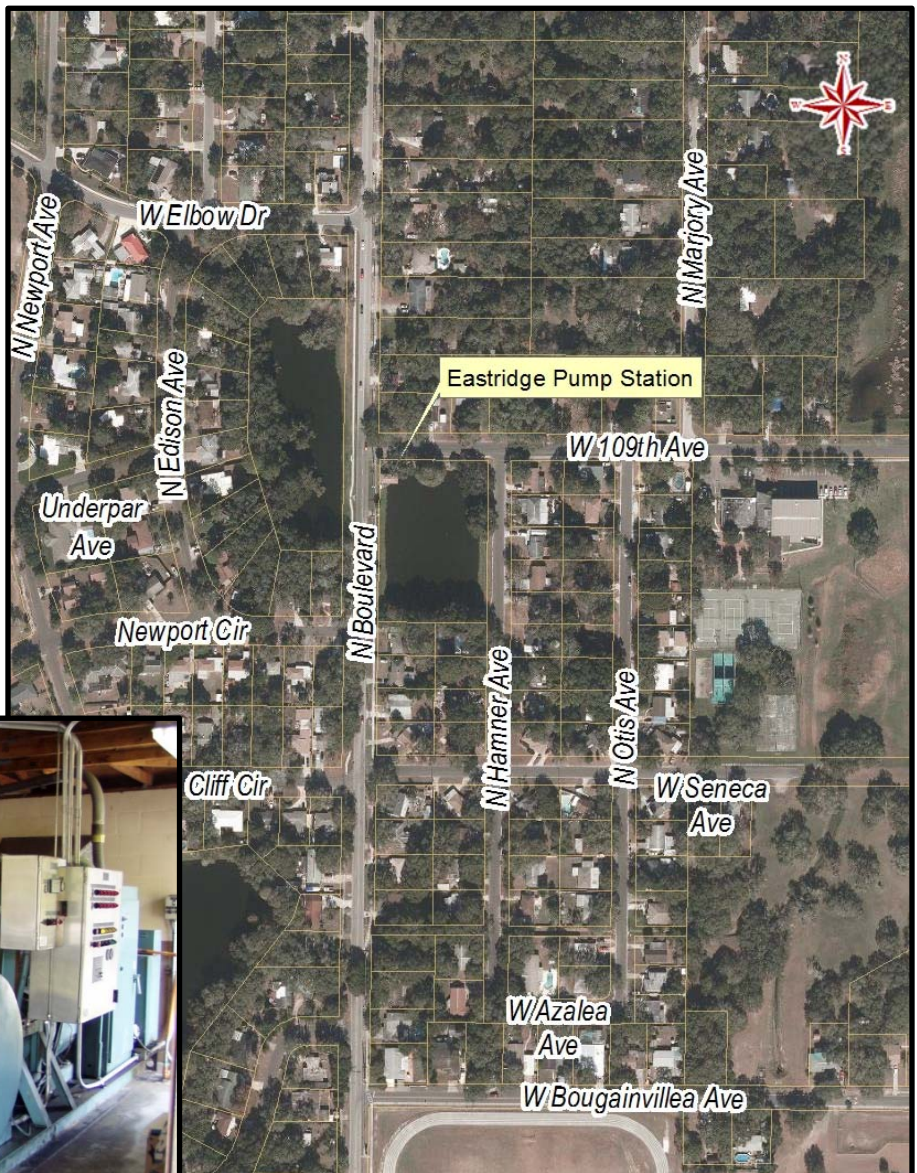
### Project Description:

The project consists of removal of the hydraulically driven pump and installation of two electric submersible pumps and motor controls to provide redundancy.

### Justification:

The Eastridge Pumping Station was constructed in 1983 with a single hydraulically driven pump. Repairs and maintenance have increased in the past five years.

### Project Map and Photo





## Anita Subdivision Drainage Improvements PH II

## Flooding Relief FY2018, District 4

Estimated cost: \$600K

### Project Description:

This neighborhood was developed with ditches draining to a collection system that discharged the stormwater to a system on Westshore Boulevard. Over the years, the ditches have been filled in and driveway culverts have been installed improperly. Consultant will evaluate the current drainage patterns and identify areas where ponding occurs. City crews will reestablish the relic ditches and correct the driveway culverts.

**Justification:**

The project reduces the flooding affecting residential properties and roadways.

## Project Map





# 56th Street and Broadway Avenue Flooding Relief

## Water Quality Improvement/Flooding Relief FY2019, District 5

Estimated cost: \$2M

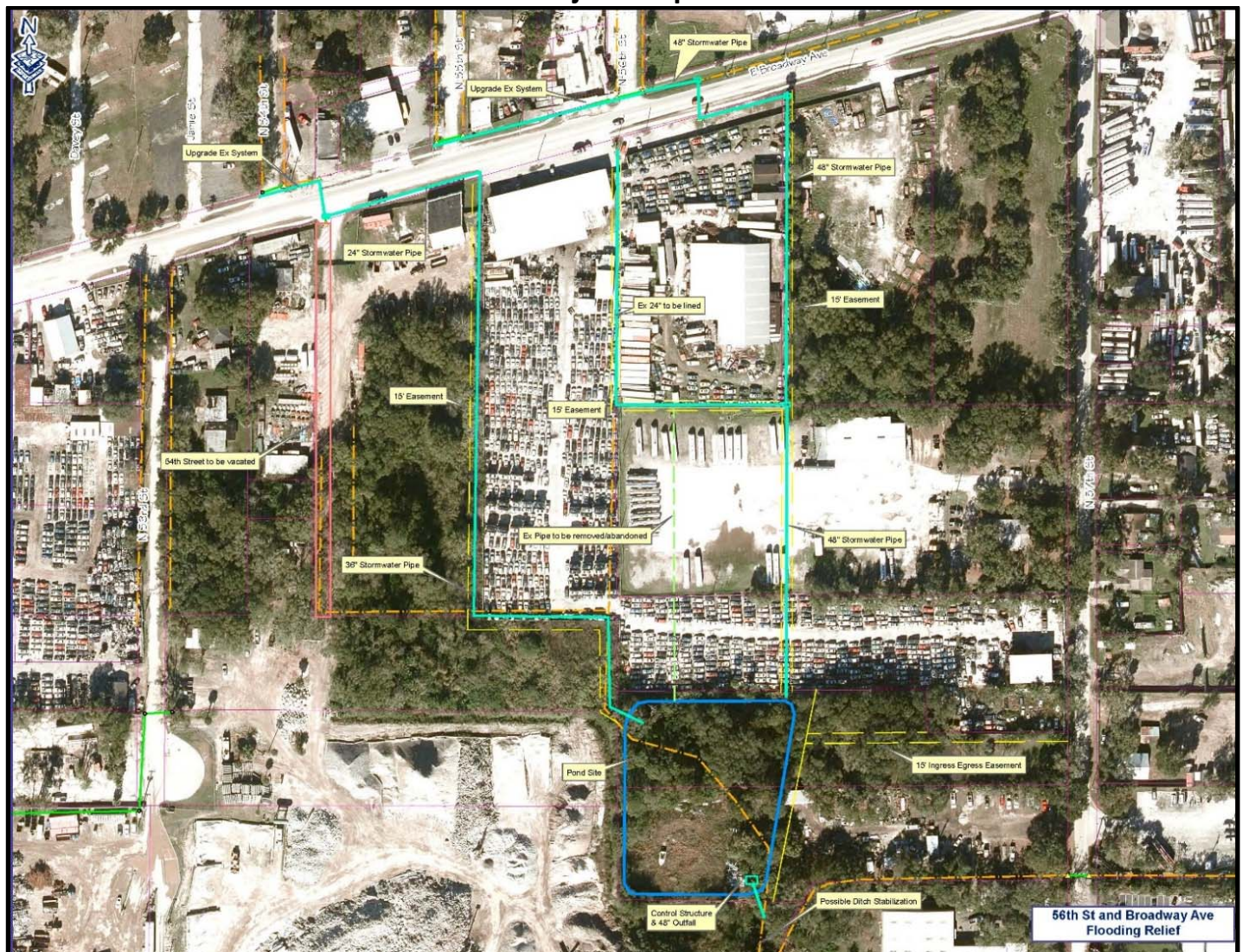
### Project Description:

This section of Broadway Avenue experiences frequent flooding resulting from a combination of undersized piping systems and failing ditches. This project consists of property acquisition for a new stormwater pond that will provide water quality treatment and attenuation for the area, and the relocation, replacement and upsizing of pipes and ditches.

### Justification:

This section of Broadway Avenue experiences frequent flooding resulting from a combination of undersized piping systems and failing ditches. The proposed project will improve drainage in the area.

### Project Map





# Hamilton Creek Water Quality Improvement

## Water Quality Improvement FY2019, District 6

Estimated cost: \$500K

### Project Description:

The scope of this project is to construct a five-pond stormwater treatment facility for Hamilton Creek, which outfalls to the Hillsborough River.

### Justification:

The receiving section of the river has been listed by the Florida Department of Environmental Protection as impaired for fecal coliforms. This segment of the river was issued a Total Maximum Daily Load (TMDL) for nutrients and fecal coliforms and is currently under Basin Management Action Plan (BMAP) requirements for water quality improvements. The proposed project is part of the effort to improve the Hillsborough River water quality by reducing the amount of fecal coliform and nutrients discharged to the river. The Lowry Park Zoo supports this project and will be cooperative in implementing educational environmental programs on the project site to benefit the public.

### Project Map





## Lamb Canal Rehabilitation

### Water Quality Improvement/Flooding Relief FY2019, District 4

Estimated cost: \$3.5M

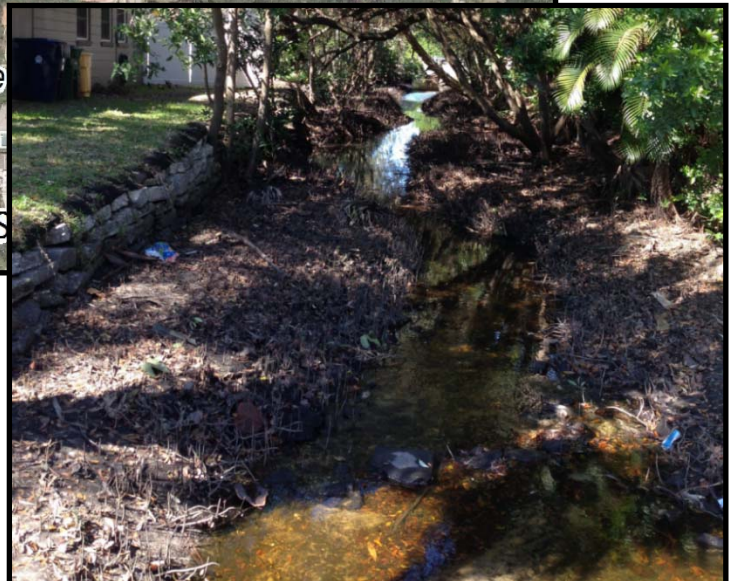
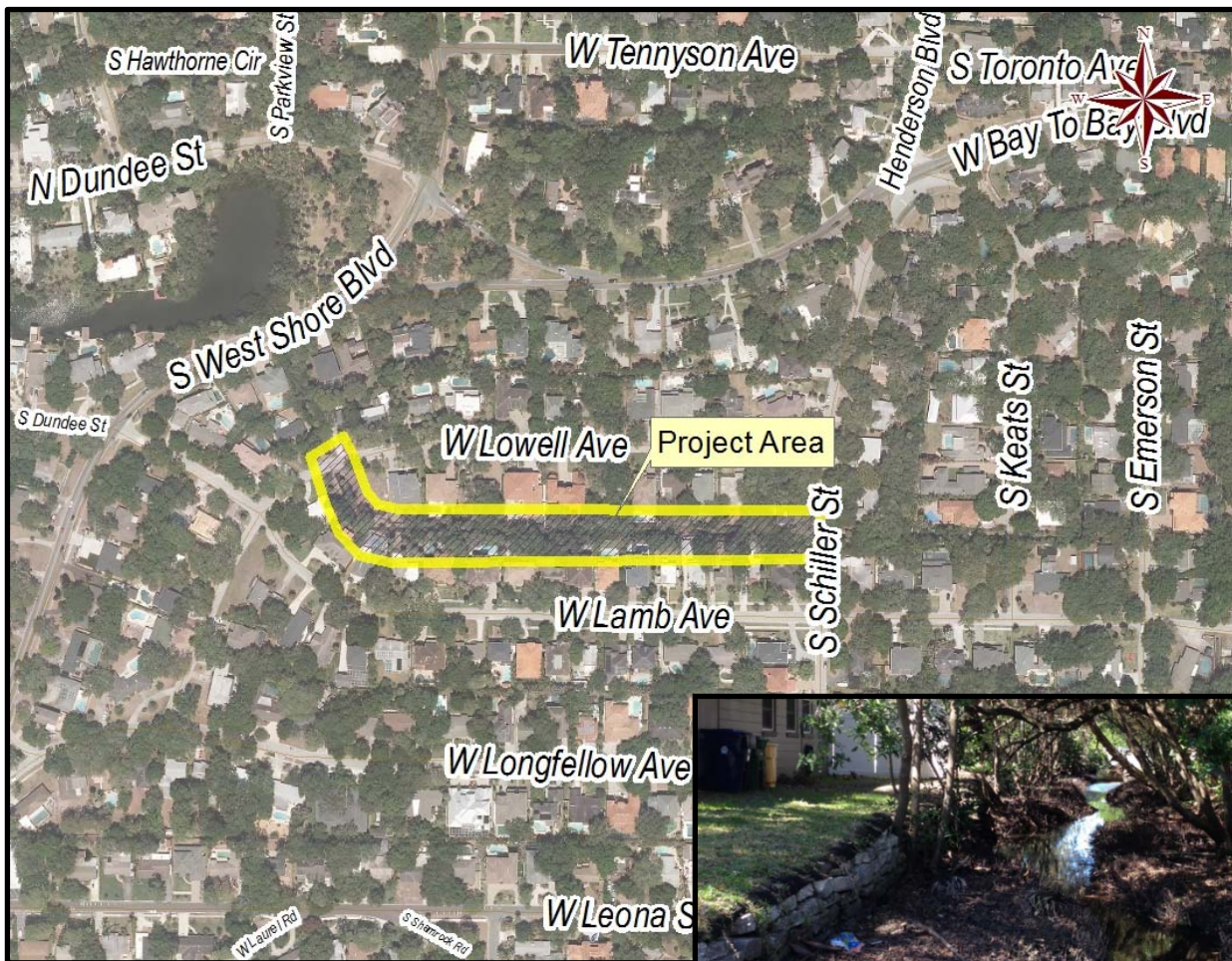
#### **Project Description:**

The project will include removal of sediments and reconstruction of the banks of the canal to restore the canal capacity and protect properties from erosion.

#### **Justification:**

Lamb canal from South Schiller Street to West Lowell Avenue section has eroded over the years and in need of rehabilitation. The capacity of the canal is significantly reduced due to embankment deterioration.

#### **Project Map and Photo**





## **Ditch Rehabilitation Program**

### **Water Quality Improvement/Flooding Relief FY2019, Citywide**

Estimated cost: \$1M

#### **Project Description:**

This project creates an annual contract to address ditch improvements and associated upgrades to improve conveyance capacity and embankment stabilization.

#### **Justification:**

Rehabilitation is needed for ditches that have diminished capacity due to embankment erosion that cannot be corrected by maintenance.



**Project photos**



## Hyde Park Groundwater Diversion Ph 2 (New Port, Willow, Orleans, and Watrous)

### Groundwater Diversion FY2020; District 4

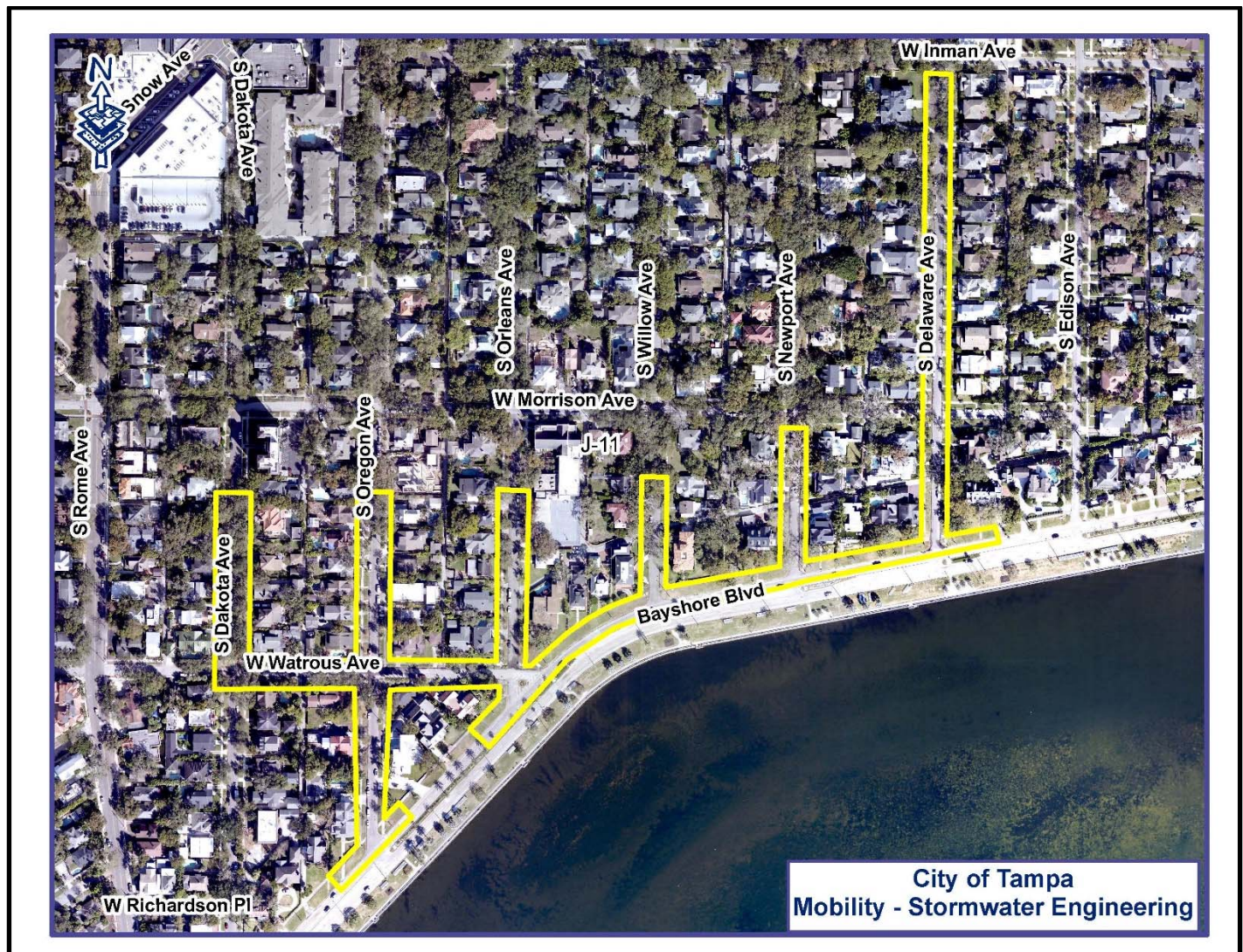
Estimated cost: \$2M

#### Project Description:

This area of Hyde Park has experienced extremely high groundwater level causing seepage from the cracks in the sidewalks, driveways and roadway. This seepage has killed roadway trees and prompted a growth of algae on the street and sidewalks, posing a hazard to pedestrians and traffic.

The proposed project includes the installation of underdrain systems along each side of the roadways. The new underdrain systems will be connected to the existing inlets along Bayshore Boulevard for discharge to Hillsborough Bay.

#### Project Map





## **Beach Park Drainage Improvement**

### **Flooding Relief FY2020; District 6**

Estimated cost: \$1M

#### **Project Description:**

This project consists of construction of new pipes and inlets connecting to the existing system on Swann Avenue to alleviate flooding in the area.

#### **Justification:**

Flooding occurs in the area due to insufficient drainage capacity of the existing system. The proposed project will provide a second outlet for the low-lying area to reduce the localized flooding.

#### **Project Map**





## Manhattan: Vasconia to Bay to Bay

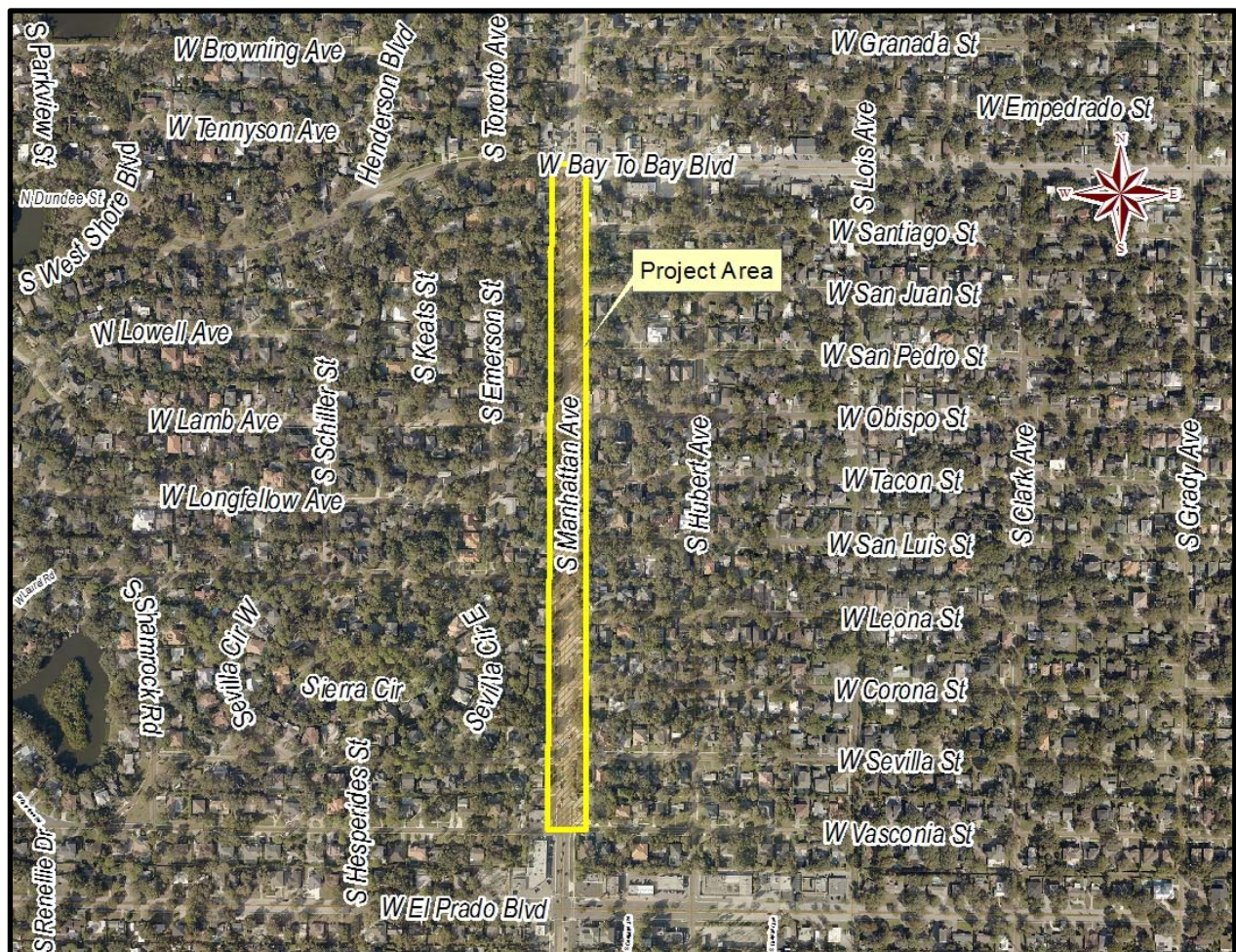
### Flooding Relief FY2020; District 4

Estimated cost: \$7.5M

#### Project Description:

This section of Manhattan Avenue has experienced flooding due to lack of a stormwater system. The proposed project consists of installation of new inlets and pipes connecting to the existing Vasconia system to provide flooding relief for the area.

#### Project Map





## **Annual Box Culvert Rehabilitation**

### **Flooding Relief; Citywide**

Estimated cost: \$3M

#### **Project Description:**

The City has numerous box culverts that are over 75 years old. These structures need remedial work to repair spalled concrete and joint leaks. The proposed project will create an annual contract to address the repairs in a timely fashion as they become evident.

#### **Project Photos:**





## Copeland Park Pumping Station

### Flooding Relief FY2018, District 7

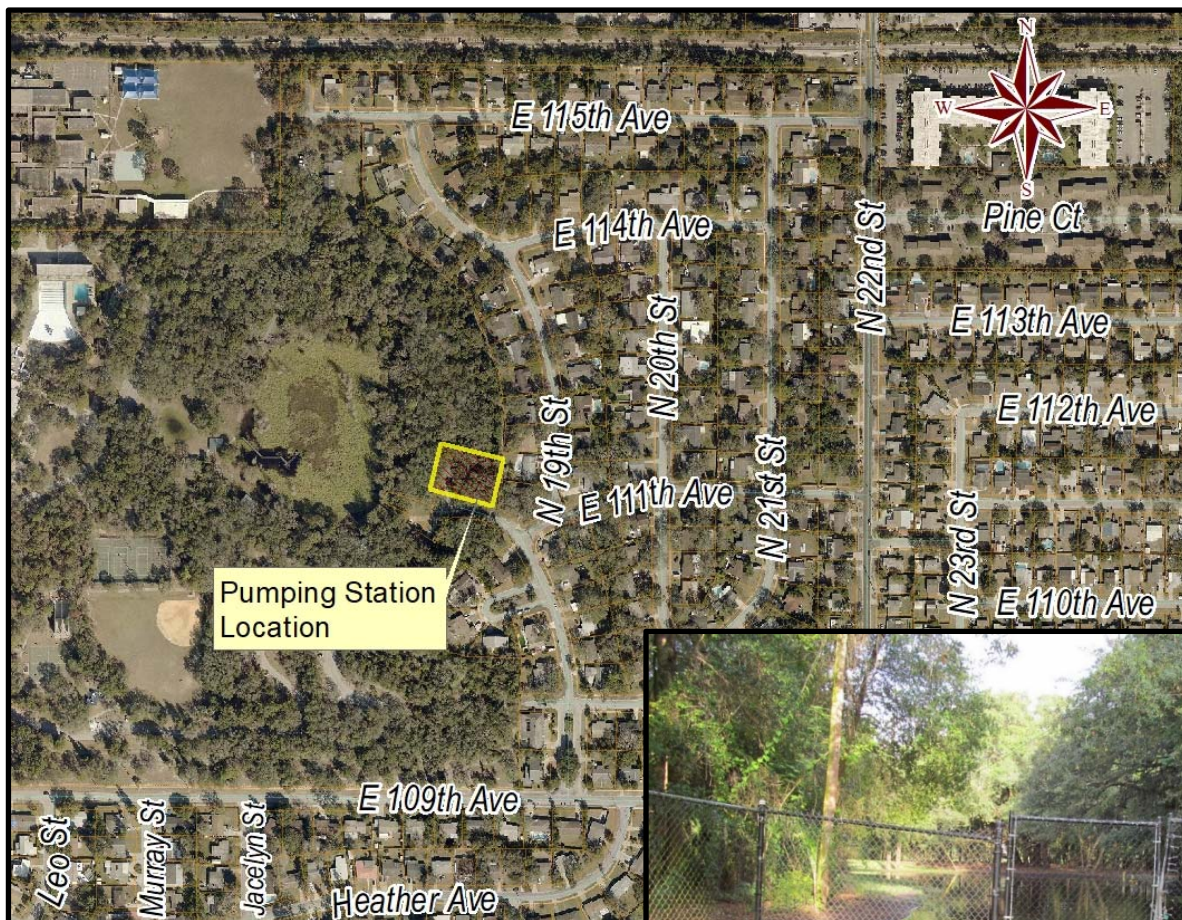
Estimated cost: \$200K

#### Project Description:

Currently a temporary pump is utilized to drain the low-lying area in Copeland Park. The proposed project will replace the temporary pump with a permanent pumping station and provide a more reliable system to better alleviate the flooding in the area.

The project consists of construction of a new pumping station. The force main connecting the pumping station to the existing drainage system on E 111<sup>th</sup> Ave. and N 26<sup>th</sup> St. area will be constructed under a separate project.

#### Project Map and Photo





## **Lantana / Poinsettia Flooding Relief**

### **Flooding Relief FY2020, District 7**

Estimated cost: \$200k

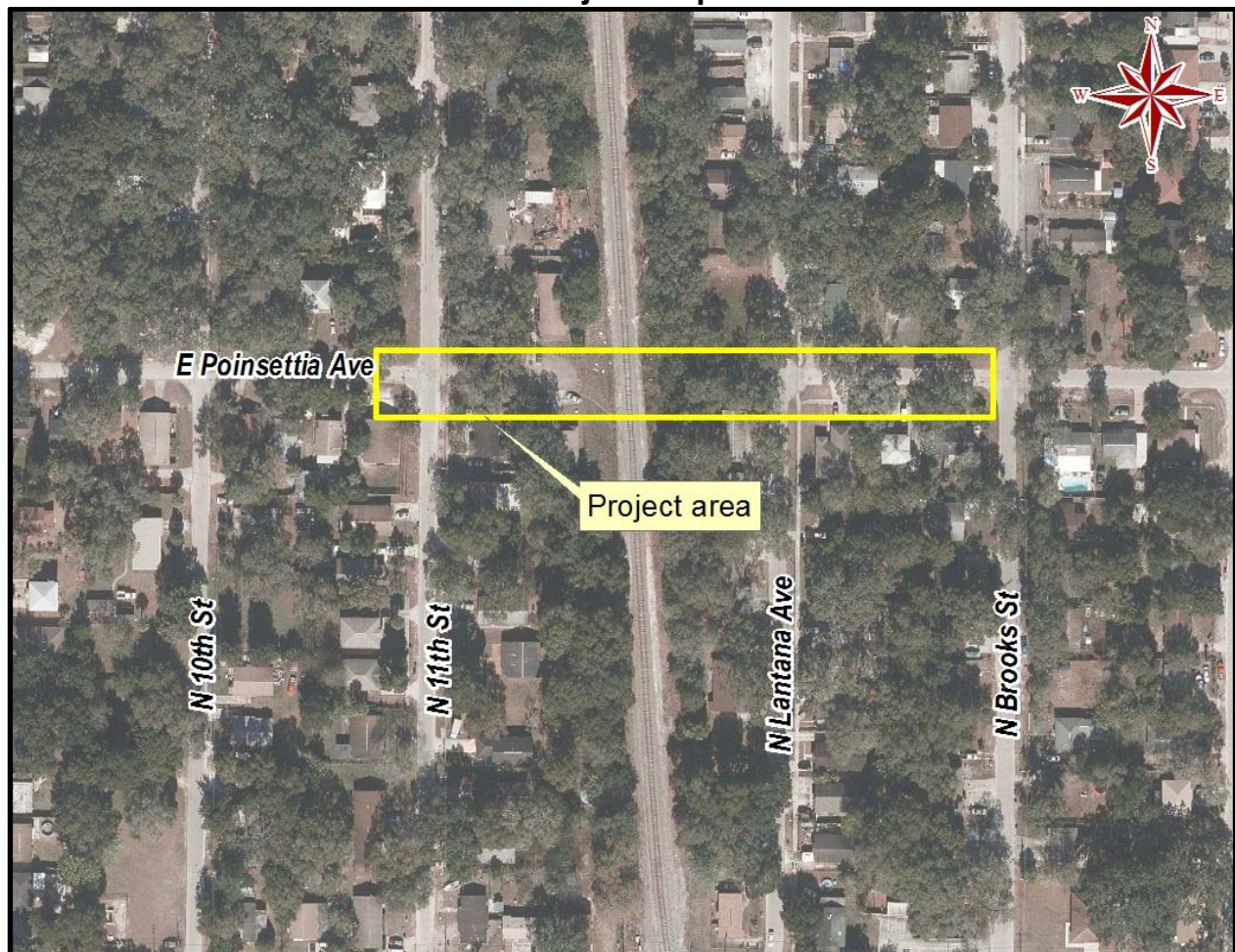
#### **Project Description:**

The project consists of property acquisition and construction of a new collection system, a new pumping station to replace the temporary pumping station, and force main connecting to the existing drainage system on N 11<sup>th</sup> Street.

#### **Justification:**

Currently a temporary pump is utilized to drain the low-lying area along E Poinsettia Avenue between N Brooks Street and N Lantana Avenue. The proposed project will replace the temporary pump with a permanent pumping station.

#### **Project Map**





## El Portal/Newport Pumping Station

FY2021, District 6  
Estimated cost: \$325k

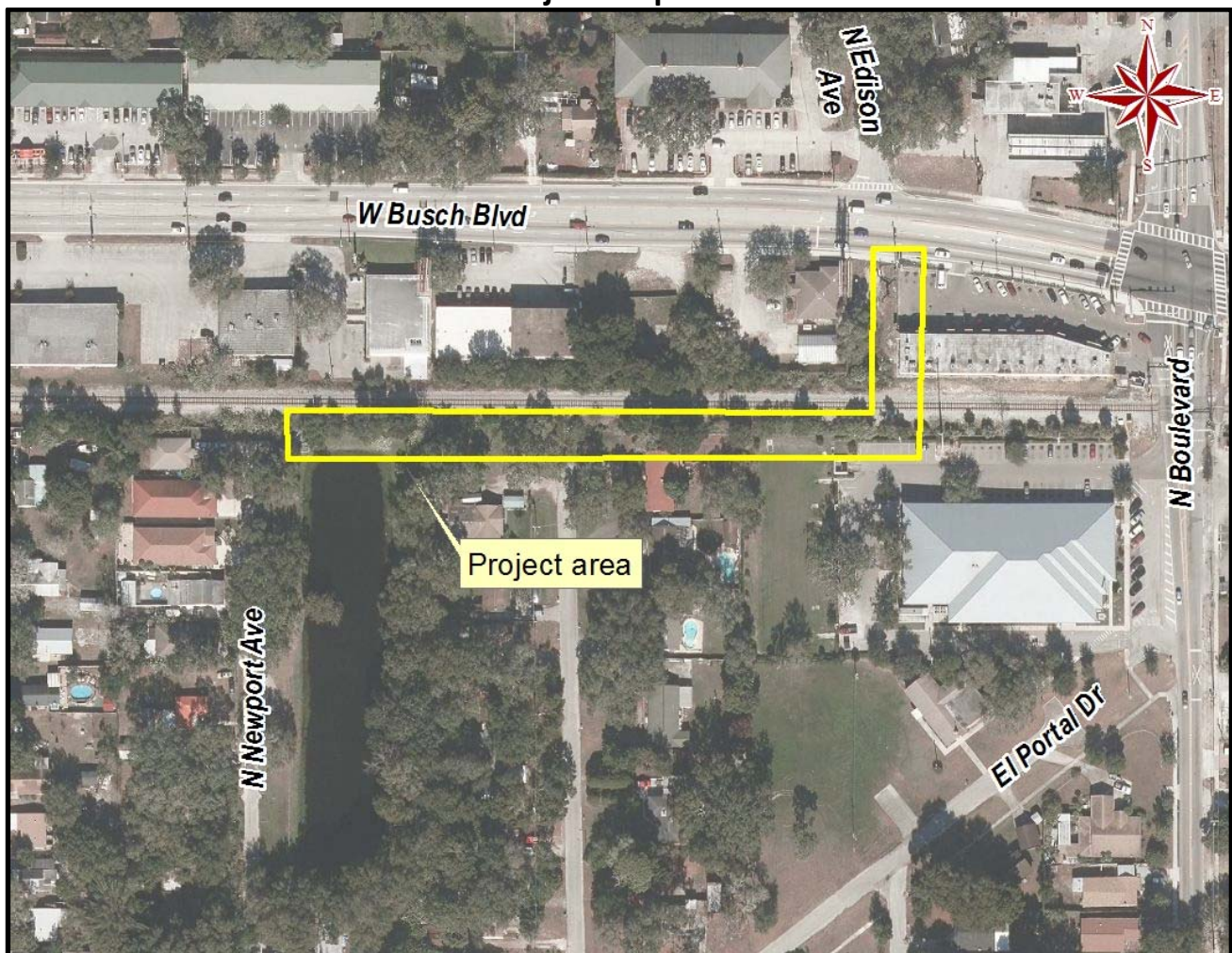
### **Project Description:**

The project consists of construction of a new pumping station and force main connecting to the existing drainage system on Busch Boulevard.

### **Justification:**

The pond located at N Newport Avenue and Busch Boulevard area currently discharges via a temporary pump. The proposed project will replace the temporary pump with a permanent pumping station to provide a more reliable outfall for the pond system.

**Project Map**



## **Idell Street Roadway Improvements PH II**

### **Flooding Relief FY2017, District 5**

Estimated cost: \$75K

#### **Project Description:**

Construction of new ditch system discharging to the Hillsborough River.

#### **Justification:**

Phase 2 of Idell Street Roadway improvements which will provide for a new outfall into the river. Stormwater in-house construction crews will be responsible for installing the new outfall via ditch to the River.

#### **Related Issues:**

Site located at 1911 East Mulberry.

### **Project Map**





## Concordia Pond

### Flooding Relief FY2017, District 4

Estimated cost: \$125K

#### **Project Description:**

Four parcels were acquired to construct a drainage pond to provide additional drainage system capacity before discharge to box culvert in adjacent CSX corridor.

#### **Justification:**

During heavy rain events, several parcels at the corner of Concordia and Kensington experience flooding due to outdated drainage system.

#### **Related Issues:**

A CSX drainage connection permit is necessary before construction.

#### **Project Map and Photo**





## **Binnicker at 4<sup>th</sup> Street**

### **Flooding Relief FY2018, District 4**

Estimated cost: \$50K

#### **Project Description:**

The project consists of construction of new pipes and inlets and regrading of the roadway as needed.

#### **Justification:**

Localized flooding occurs at intersection of West Binnicker Avenue and South 4<sup>th</sup> Street. The proposed project will alleviate the flooding.

#### **Project Map**





## Neptune/Treasure Drainage Improvement

Pipe in Ditch FY2018, District 6

Estimated cost: \$75K

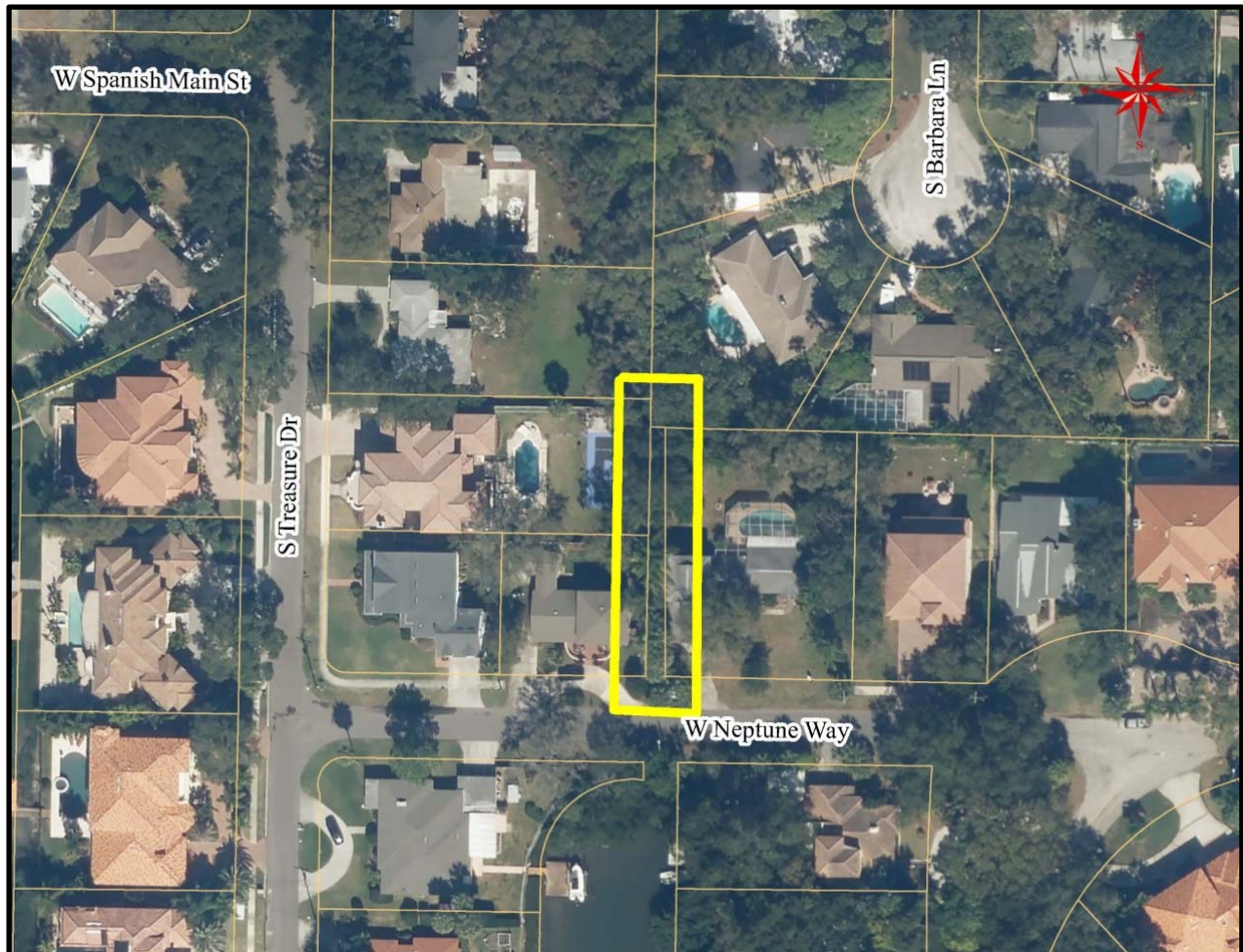
### **Project Description:**

The proposed project will pipe in the existing ditch with a shallow swale.

### **Justification:**

The ditch is eroded and in need of restoration. The proposed project will prevent further erosion and enhance public safety.

### **Project Map**



## **Ballast Point Boulevard at MacDill Avenue**

### **Flooding Relief FY 2019, District 4**

Estimated cost: \$125K

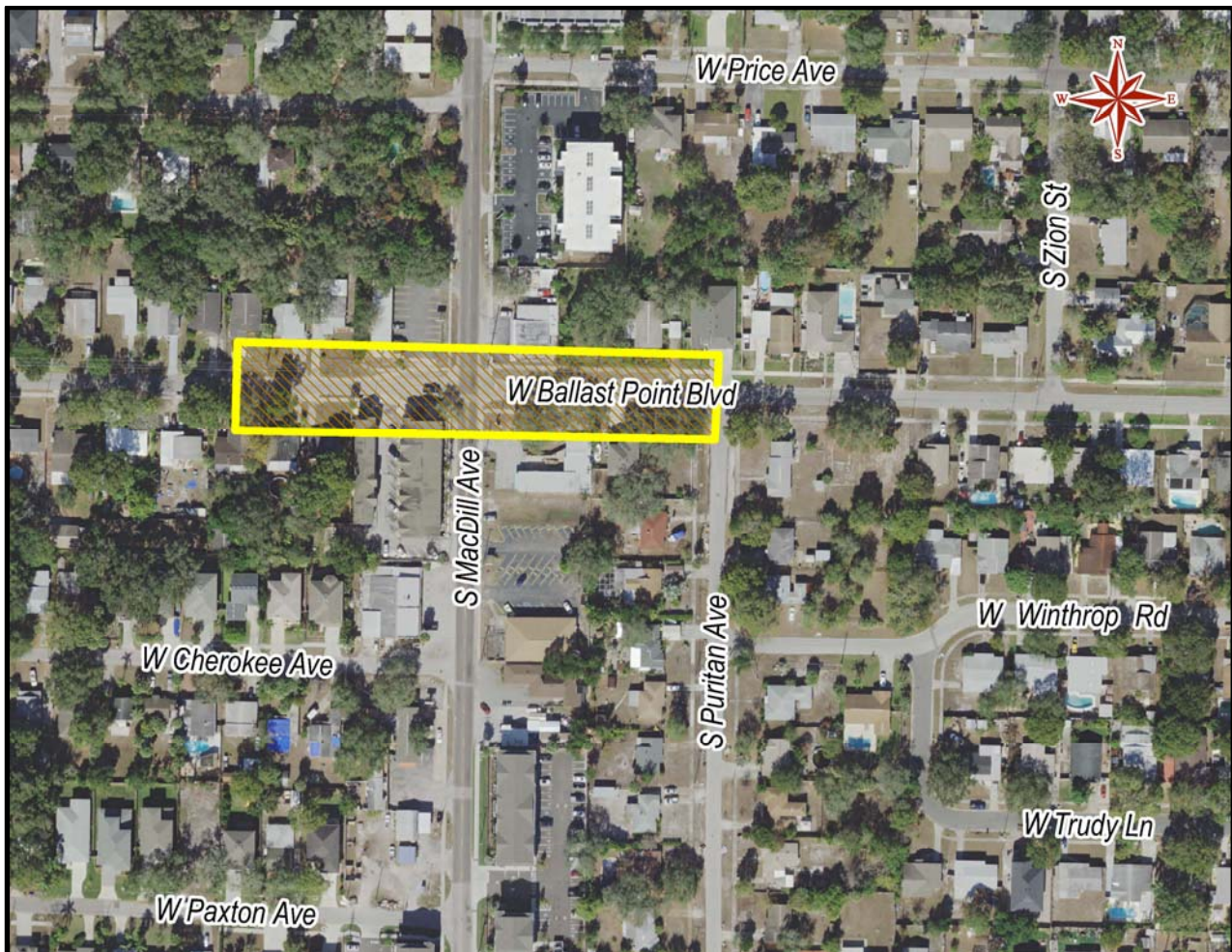
#### **Project Description:**

The project consists of construction of new surface water management facilities and roadway re-grading.

#### **Justification:**

The intersection experiences frequent flooding from blocked drainage resulting from the cumulative impact of sidewalk additions and street overlayment. The project will improve conveyance to relieve flooding in the intersection.

#### **Project Map**





# Chelsea Street at 44th Street Flooding Relief

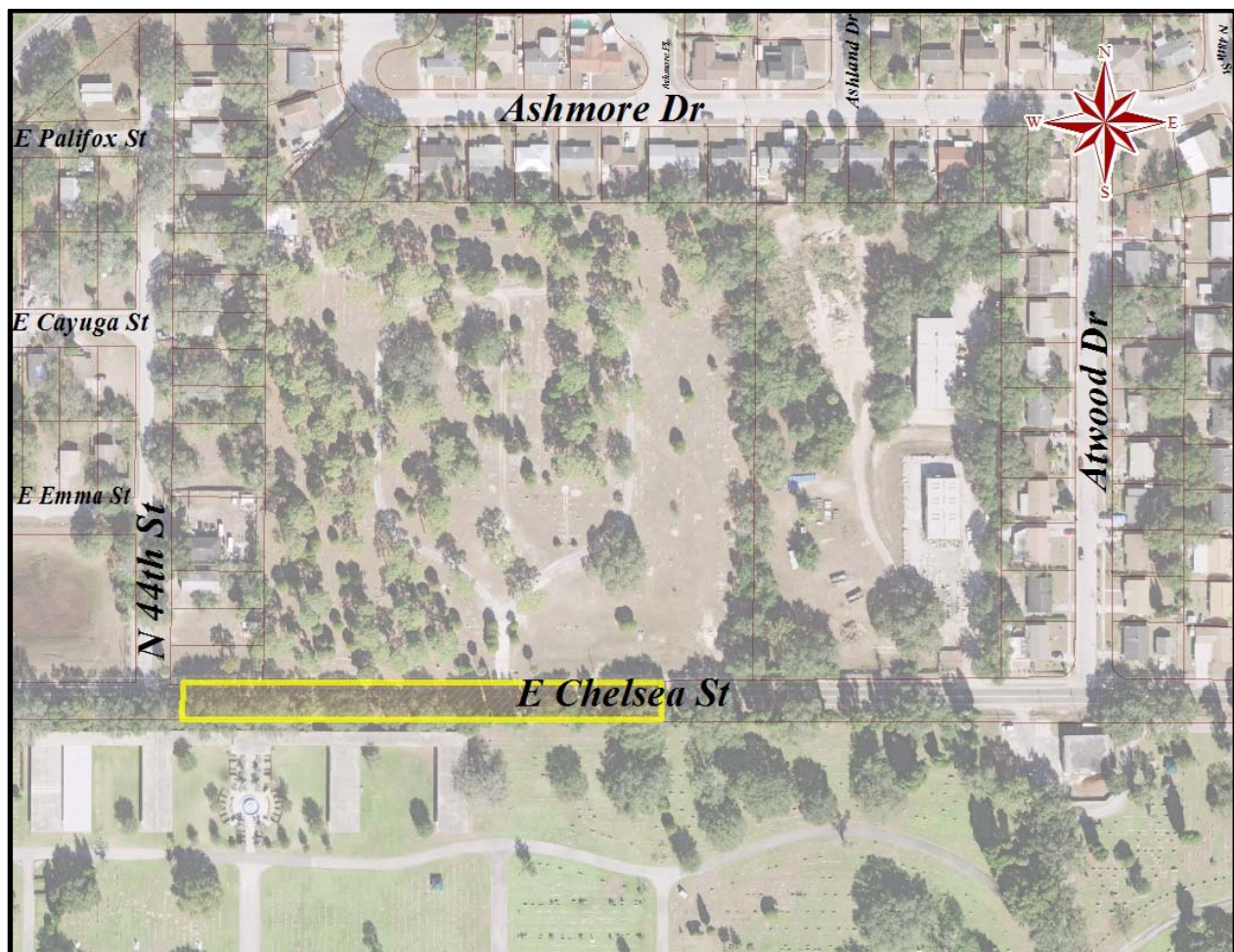
## Flooding Relief FY 2020, District 5

Estimated cost: \$90K

### Project Description:

Low-lying areas on East Chelsea Street between North 44<sup>th</sup> Street and Atwood Drive experiences frequent flooding. The proposed project consists of construction of new pipes and inlets connecting to the existing drainage system to alleviate the current flooding situation.

### Project Map





## Everina Street from Carrington to Coachman

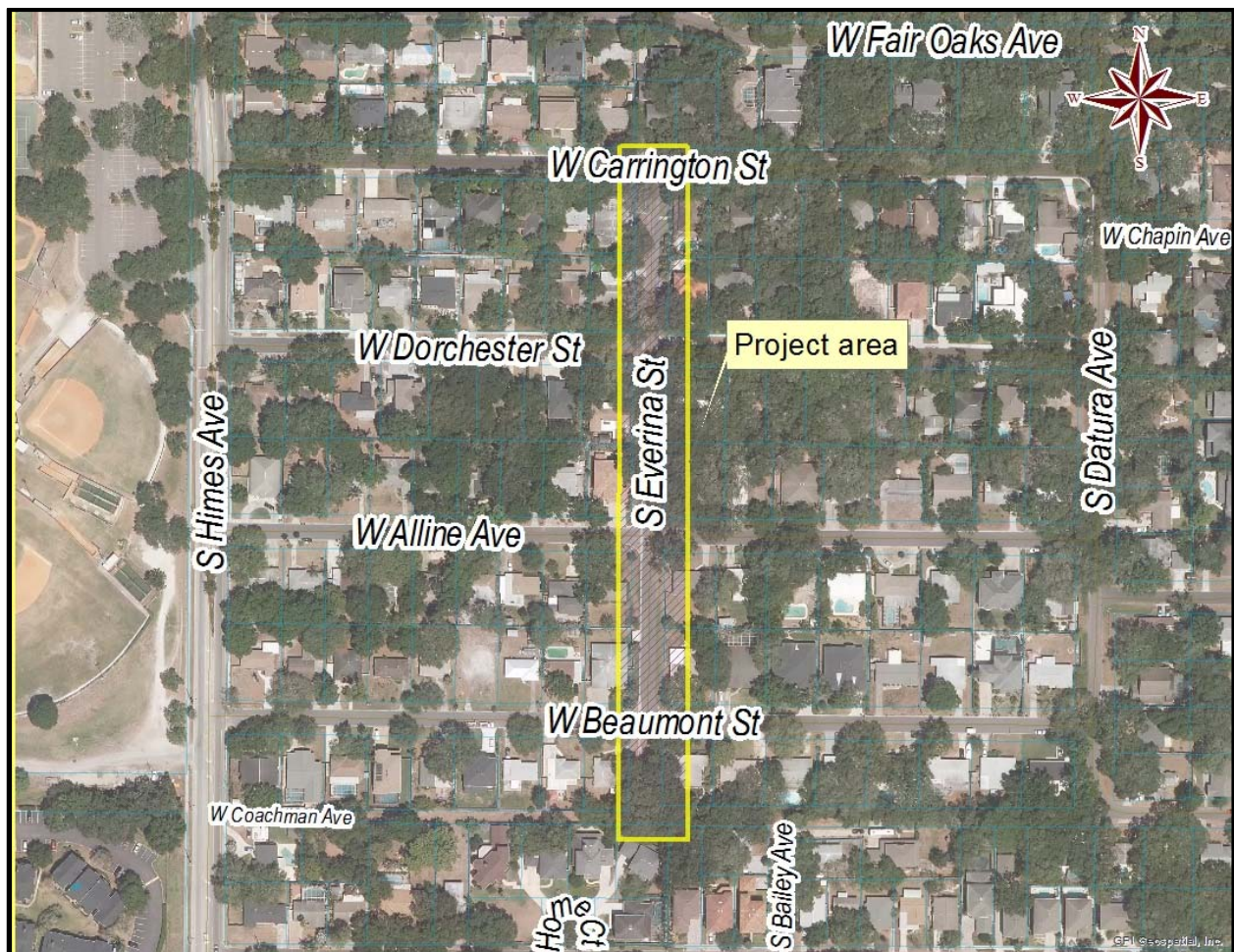
### Flooding Relief FY 2020, District 4

Estimated cost: \$200K

#### Project Description:

This section of S Everina Street has experienced localized flooding in the past. The scope of this project is to install new pipes and inlets connecting to the existing system to provide flooding relief for the residential neighborhood.

#### Project Map





## **Okara & 26th Street Force Main**

### **Flooding Relief, District 7**

Estimated cost: \$90K

#### **Project Description:**

Currently the pond located at Okara Road and 26<sup>th</sup> Street outfalls via a temporary pump and force mains. The proposed project will replace the force main system. The temporary pump will be replaced with a permanent pumping station later under a separate project.

#### **Project Map**



# Terrace Park Pond Outfall

**Flooding Relief FY 2021, District 7**

Estimated cost: \$75K

## **Project Description:**

The existing pond located at the intersection of 46th Street and Bougainvillea Avenue does not have an outfall. The pond overflows and floods the adjacent properties and streets after heavy rainfalls. The proposed project will provide an outfall for the pond to alleviate the flooding. Project includes the installation of control structure for the pond with pipes connecting it to the existing system on Bougainvillea Avenue.

## **Project Map**





## Howard & North B Street Flooding Relief

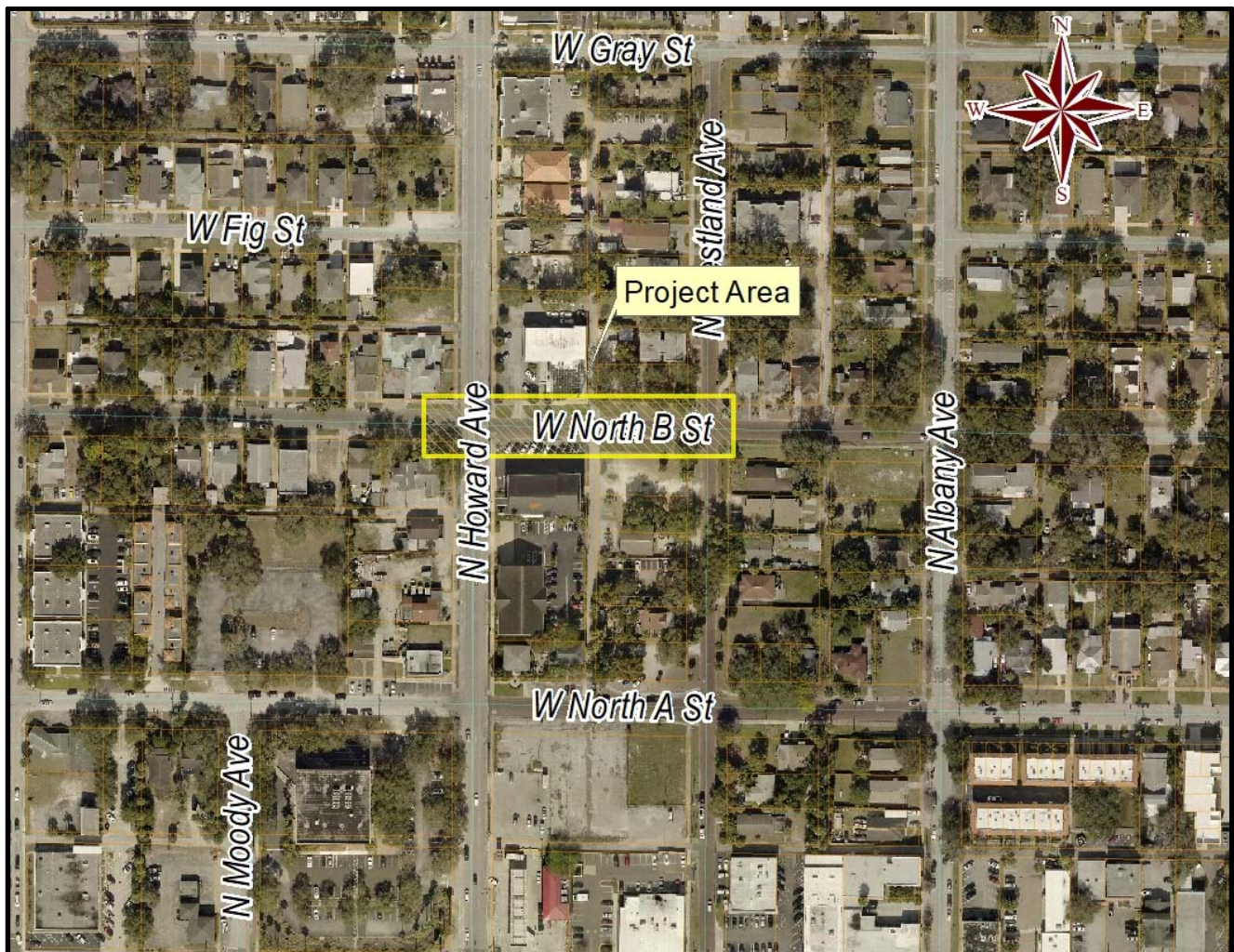
Flooding Relief FY 2021; District 4&5

Estimated cost: \$75K

### Project Description

Localized flooding occurs frequently in the area. The proposed project will alleviate the flooding. The project consists of construction of new pipes and inlets and regrading of the roadway as needed.

### Project Map





## 36th Street from Osborne to Palifox

**Flooding Relief FY 2021; District 5**

Estimated cost: \$90K

### **Project Description:**

Low-lying areas of 36th Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on Palifox Street to alleviate flooding.

### **LOCATION MAP**





## Webster Street from Osborne to Palifox

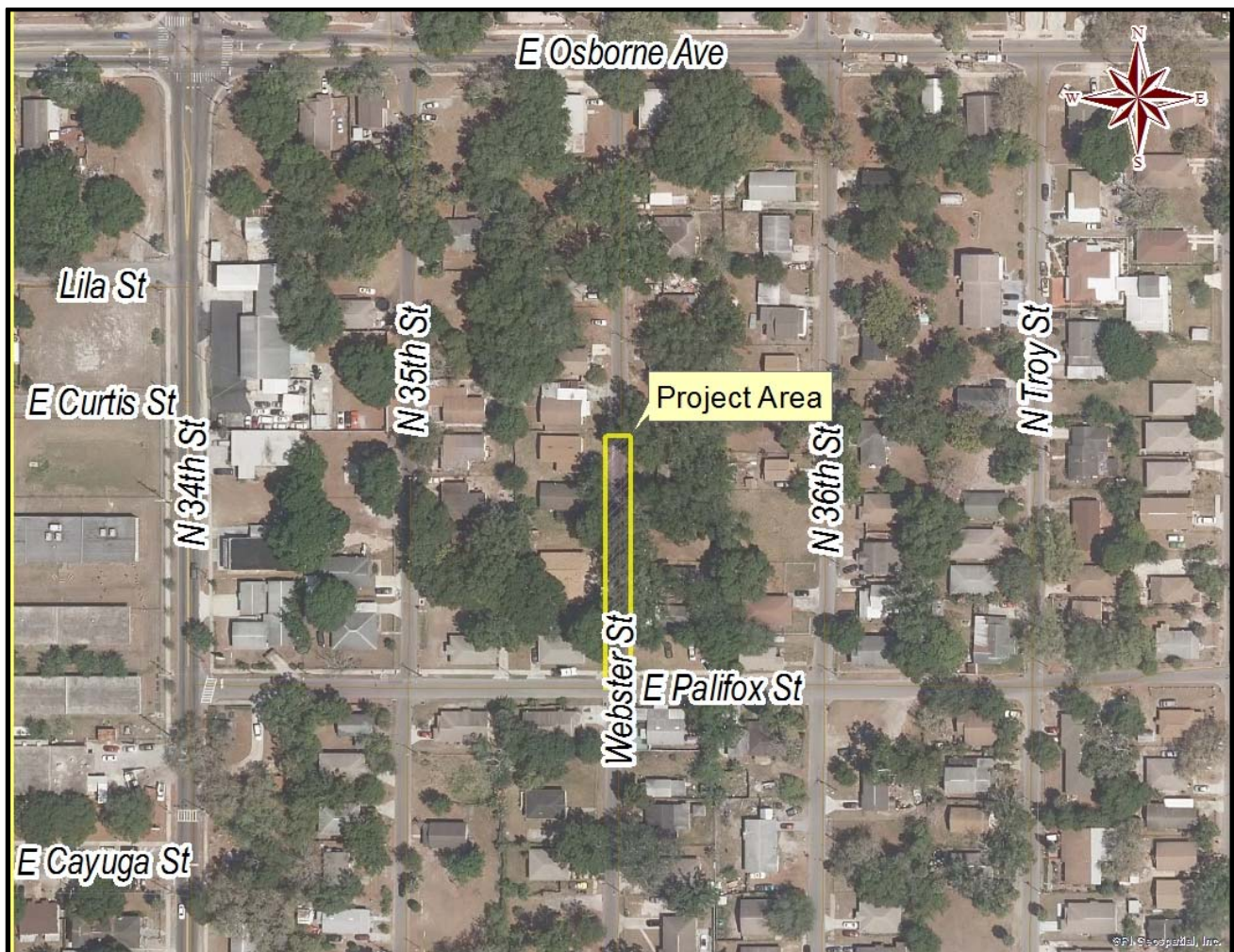
### Flooding Relief FY 2021; District 5

Estimated cost: \$90K

#### Project Description:

Low-lying areas of Webster Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on Palifox Street to alleviate flooding.

#### LOCATION MAP





## Troy Street from Osborne to Palifox

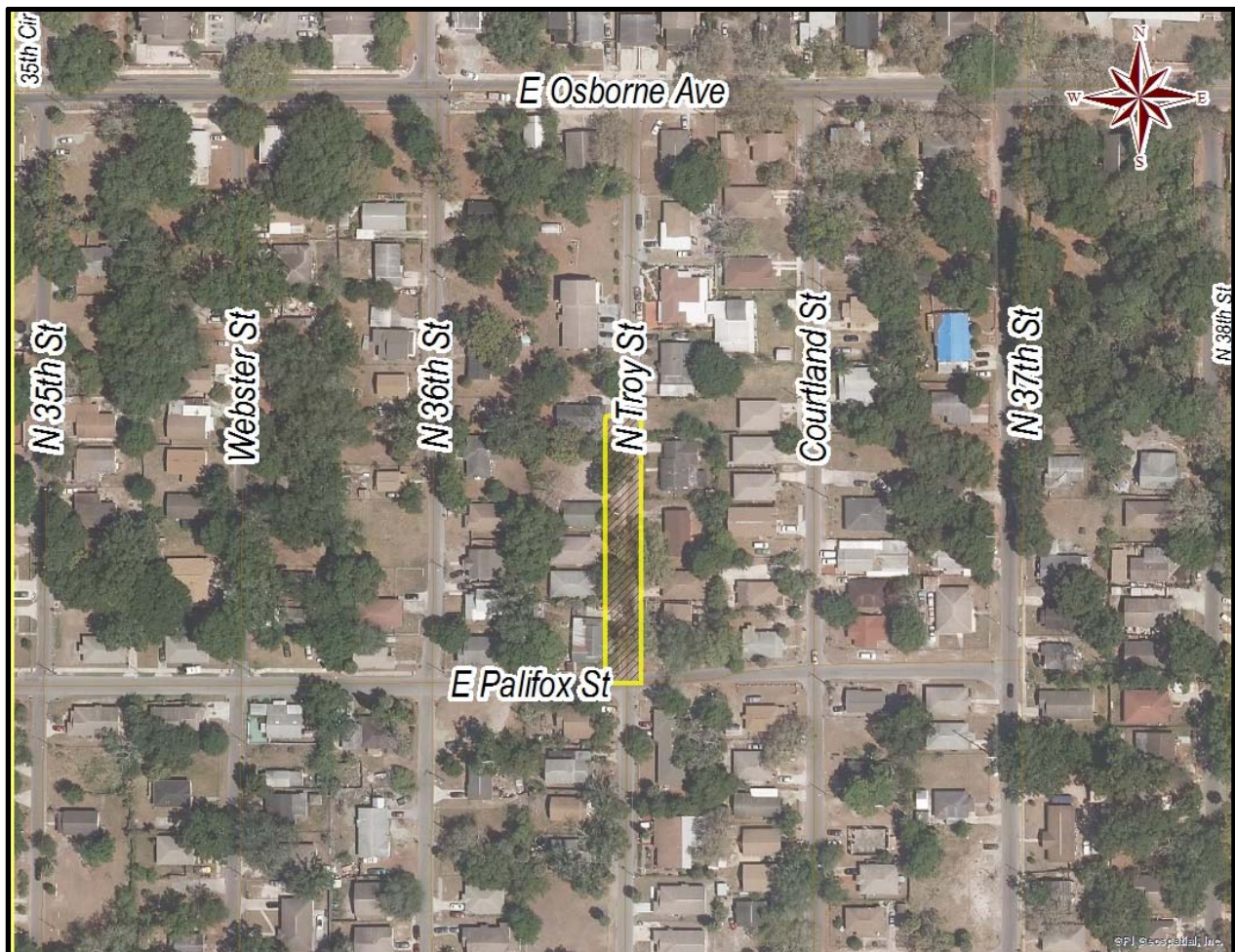
**Flooding Relief FY 2021; District 5**

Estimated cost: \$90K

### **Project Description:**

Low-lying areas of Troy Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new pipes and inlets connecting to the existing drainage system on Palifox Street to alleviate flooding.

### **LOCATION MAP**





## **NTCB - 17th Street and Annona Avenue Flooding Relief**

**Flooding Relief FY 2021; District 7**

Estimated cost: \$75K

### **Project Description:**

The low-lying area of 17<sup>th</sup> Street and Annona Avenue intersection experiences frequent flooding due to lack of drainage system. The project consists of construction of new inlets and pipes connecting to the existing system to alleviate the flooding.

### **Project Map & Photo:**





## NTCB - 21st and Annie Pond

### Flooding Relief/Water Quality Improvements FY2021; District 7

Estimated cost: \$90K

#### Project Description:

The N. 21<sup>st</sup> Street and E. Annie Street area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate conveyance system and lack of positive outfall. The proposed project will provide stormwater storage volume and improve local stormwater collection and conveyance system to alleviate the flooding by constructing a new stormwater pond and new pipes/inlets connecting to the pond.

#### Project Map





## **NTCB - Elmer Pond Expansion**

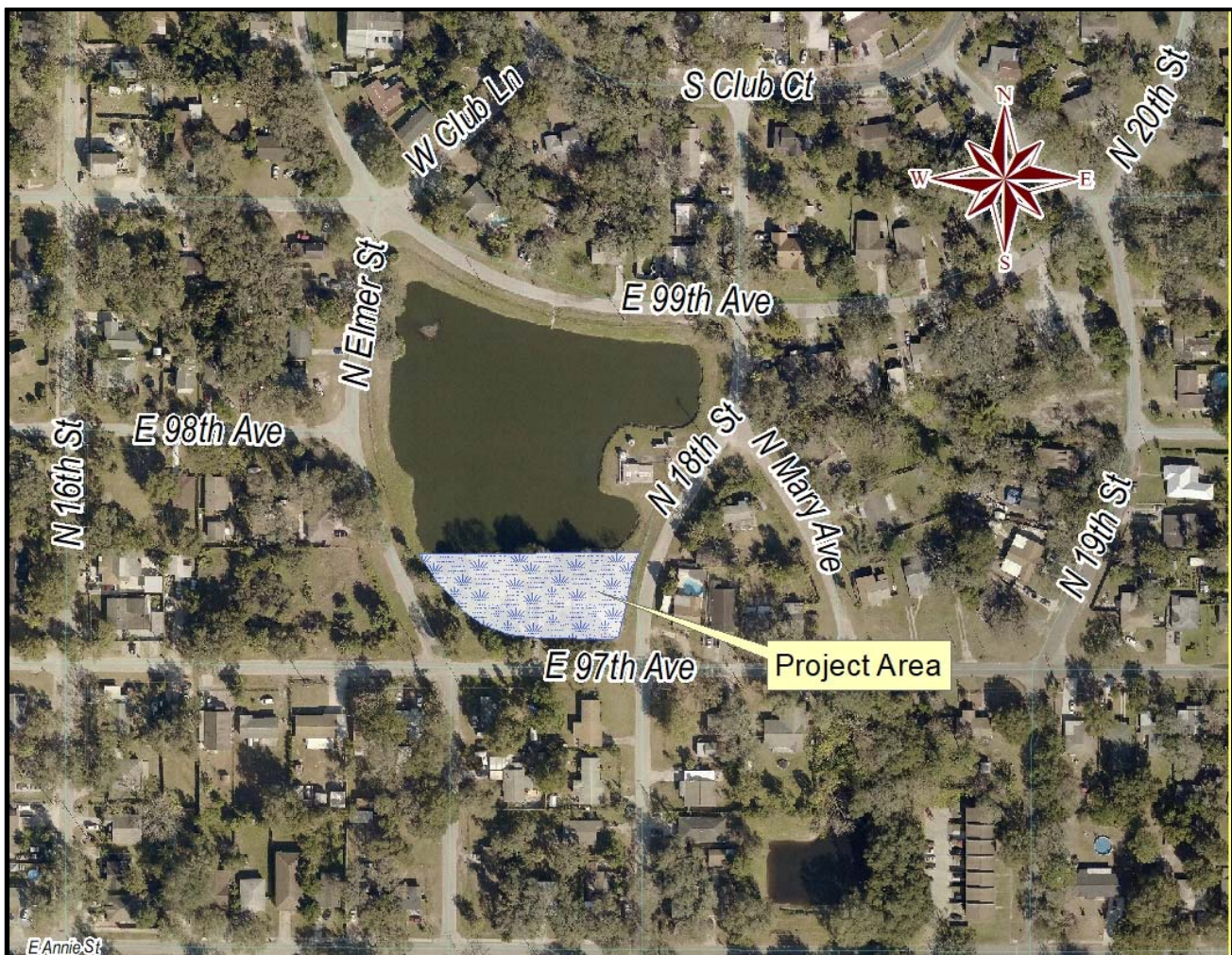
### **Flooding Relief/Water Quality Improvements FY 2021; District 7**

Estimated cost: \$50K

#### **Project Description:**

Elmer pond area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate drainage system. The proposed project will alleviate the flooding in the area by expanding the existing pond on the recently acquired properties adjacent to the pond to provide additional stormwater storage capacity. The project includes property acquisition and pond construction.

#### **Project Map**





## NTCB - 99<sup>th</sup> Avenue Pond Expansion

**Flooding Relief/Water Quality Improvements FY 2021; District 7**

Estimated cost: \$50K

### **Project Description:**

The current 99<sup>th</sup> Avenue Pond area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate drainage system. The proposed project will expand the existing pond on the recently acquired properties adjacent to the existing pond to provide additional storage capacity for the area. The project includes property acquisition and pond construction.

### **Project Map**





## 22<sup>nd</sup> St. & McBerry St. Flooding Relief

Flooding Relief FY 2021; District 5

Estimated cost: \$75K

### Project Description:

Low-lying areas of 22<sup>nd</sup> St. and McBerry St. experience frequent flooding due to lack of drainage system. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on 24<sup>th</sup> St. to alleviate flooding.

### Project Map





## **Parkland Estates: Audubon & Fountain Flooding Relief**

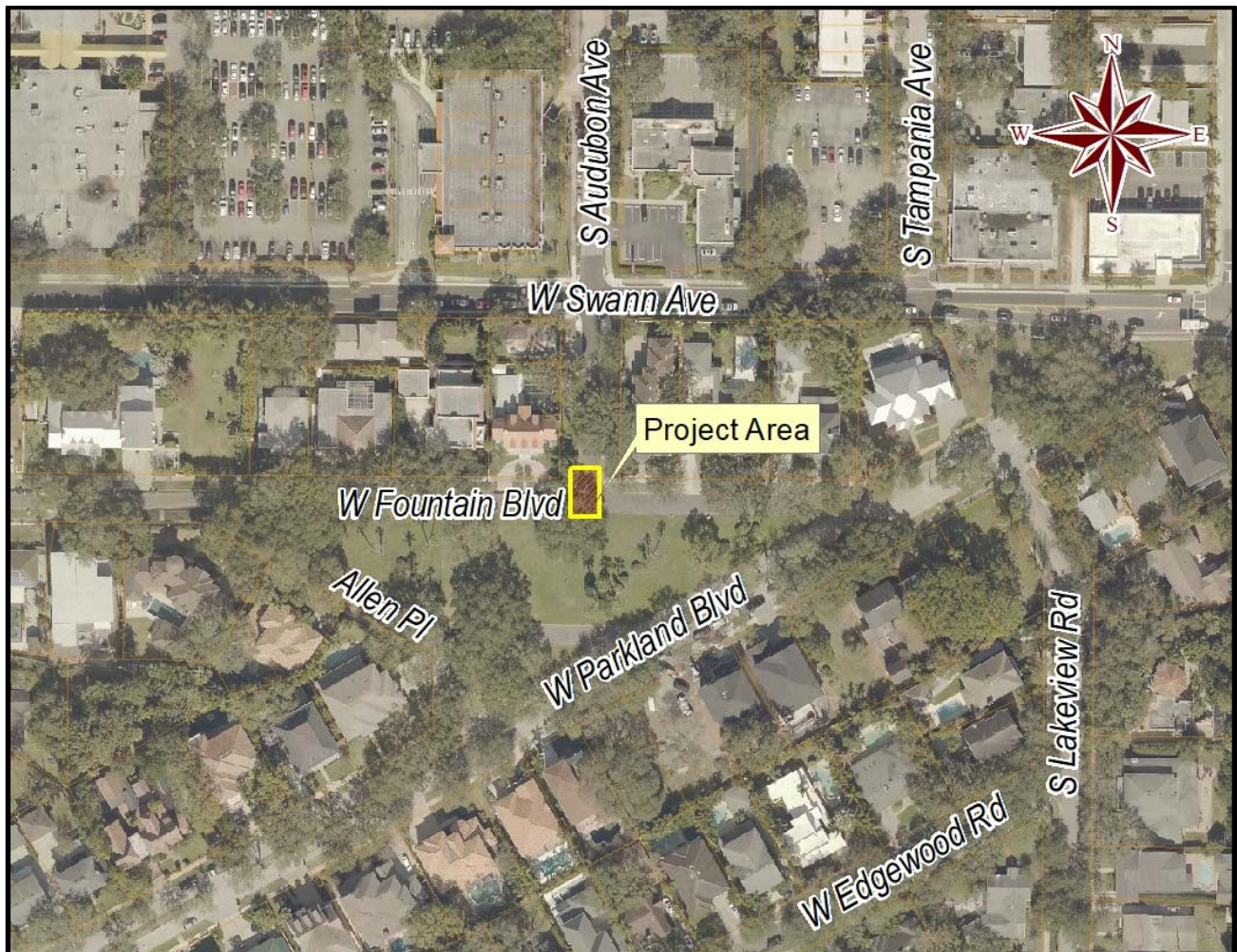
### **Flooding Relief FY 2020; District 4**

Estimated cost: \$50K

#### **Project Description:**

Audubon Ave. and Fountain Blvd intersection area has been experiencing frequent flooding due to inadequate inlet capacity. The proposed project consists of replacing aging inlets and construction of new inlets to alleviate flooding.

#### **Project Map**





## 2<sup>nd</sup> Street from Wyoming to Interbay

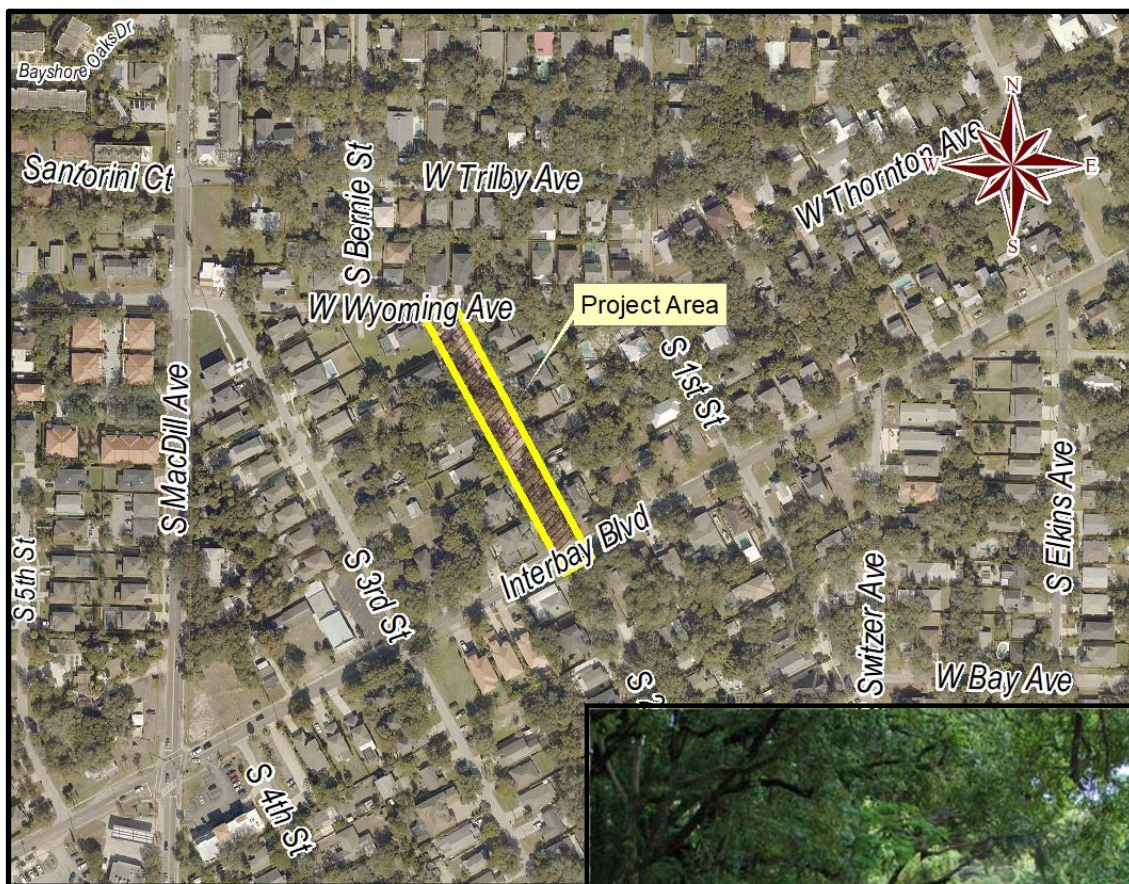
### Flooding Relief; District 4

Estimated cost: \$50K

#### Project Description:

The existing ditch/culvert system in the area has been compromised by discontinuous driveway culverts and inadequate system on Interbay Blvd. The proposed project will upgrade the drainage system on 2nd St. and provide a connection to box culvert at 3rd St to improve drainage.

#### Project Map and Photo:





## Clark Ave. and Fair Oaks Ave.

### Flooding Relief; District 4

Estimated cost: \$95K

#### Project Description:

Low-lying areas on S Clark Ave. between Fair Oaks Ave. and Lawn Ave. experience frequent flooding due to failed pipes connecting the ditch and inadequate drainage inlets in the area. The proposed project consists of replacing the failed pipes and construction of new pipes and inlets to alleviate the flooding situation.

#### Project Map





## Church and Fair Oaks Ave.

### Flooding Relief; District 4

Estimated cost: \$25K

#### Project Description:

The corner of Church Ave. and Fair Oaks Ave. experiences frequent flooding due to a section of improperly constructed aboveground pipes. The proposed project will replace the aboveground pipe with underground pipe and a manhole to establish proper drainage pattern.

#### Project Map







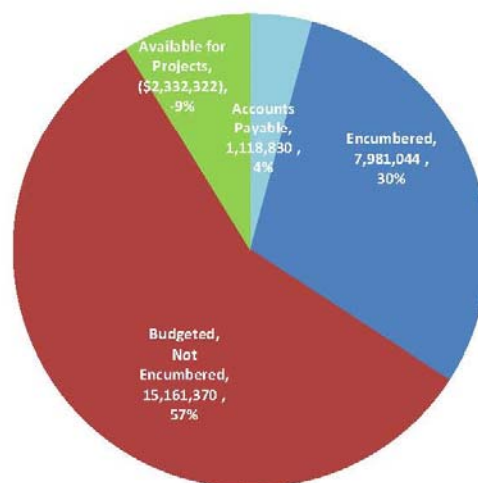
## Section B

# Stormwater Capital Improvement Bond Program Report

### City of Tampa Budget Office Stormwater Assessment Revenue Bonds, Series 2018 As of July 31, 2021

#### Available Funding for Projects:

Bond Proceeds	97,782,033.00
Underwriters & Other Fees	(706,444)
Bank Note Refunding	(26,220,000)
Transfer to Capital Project Fund	<u>70,855,589</u>
Amount Expended to Date	(52,462,016)
Accounts Payable	1,118,830
Unused Fees and Interest Earnings	(2,317,896)
Appropriation of Earned Interest	4,734,414
Remaining Bond Proceeds	<u>21,928,922</u>
Accounts Payable	1,118,830
Encumbered	7,981,044
Budgeted, Not Encumbered	<u>15,161,370</u>
Available for Projects <sup>(1)</sup>	<u>(\$2,332,322)</u>



#### Spend-Down Schedule:

6 Months (10/26/2018)	10%	\$7,560,443
12 Months (04/26/2019)	45%	\$34,021,993
18 Months (10/26/2019)	75%	\$56,703,322
24 Months (04/26/2020)	100%	\$75,604,430

Percentage Spent - July 2021 69%  
Bond Issuance Date 4/26/2018

Interest Earning Rate 0.14%  
Bond Yield Rate 1.60%

#### Project Details:

Project Name	Project Number	Budget	Actuals	Encumbrance	Balance
43rd Street Outfall Regional Drainage Improv Ph III	1000151	\$5,241,152	4,980,644	260,508	1
Upper Peninsula Flooding Relief, Ph. II - Vasconia	1000178	3,880,115	3,850,062	20,510	9,543
Orchid Sink Rehabilitation	1000384	513,086	508,586	0	4,500
Watrous Ditch Rehabilitation	1000386	90,604	60,581	0	30,023
30th Street Outfall	1000580	28,794	28,794	0	0
Box Culvert Rehabilitation	1000581	950,822	848,301	0	102,521
Howard Avenue Flooding Relief Swann to Jetton	1000749	776,903	404,049	371,888	967
Lower Peninsula Watershed Plan	1000750	1,907,978	1,876,696	0	31,281
Ditch Rehabilitation	1000751	130,259	107,849	0	22,410
Southeast Seminole Heights Flood Relief	1000773	11,503,253	1,960,150	390,323	9,152,780



Project Name	Project Number	Budget	Actuals	Encumbrance	Balance
Upper Peninsula Watershed Drainage Improvement	1001017	16,887,267	16,353,190	133,474	400,603
Cypress Street Outfall Regional Stormwater	1001018	16,719,297	12,599,376	4,119,315	606
Hamilton Creek Water Quality Improvements	1001169	500,041	111,451	38,455	350,135
ST FY17 Annual CIPP Rehabilitation	1001151	496,970	0	0	496,970
Lamb Canal Rehabilitation	1001171	1,500,058	164,534	74,994	1,260,530
North Tampa Closed Basins FY2018 - FY2022	1001173	4,463,061	4,003,342	192,375	267,344
Failed Pipe CIPP FY2018 - FY2022	1001175	2,168,405	1,806,055	256,395	105,956
In House Flooding Relief/Failed Pipe Replacement	1001176	815,711	645,300	167,892	2,519
Consultants and Land Acquisition FY2018 - FY2022	1001218	925,421	691,473	13,736	220,212
Annual Contract-Copeland Park	1001370	685,000	0	591,016	93,984
Annual Contract-Anita Sub PH2	1001371	1,410,058	291,971	965,141	152,946
In House Flooding Relief - 45th Street North of Hillsborough	1001406	240,018	229,649	8,726	1,643
In House Flooding Relief - Rambla Street	1001428	100,000	36,247	1,703	62,050
West Saint Isabel from Gomez to Habana Flooding Relief	1001437	125,000	19,236	104,880	884
Virginia Ave Pumping Station Drainage Improvements	1001597	207,536	43,830	28,325	135,381
Delaware, Oregon, and Dakota Groundwater Diversion	1001948	1,300,000	0	0	1,300,000
.El Portal & Newport Pumping Station	1001951	327,800	86,372	241,389	40
Salaries for CIP	0000000	687,402	687,402	0	0
Reserve	0000000	955,542	0	0	955,542
Cost Allocation Stormwater	0900007	66,876	66,876	0	0
<b>Grand Total</b>		<b>\$75,604,430</b>	<b>\$52,462,016</b>	<b>\$7,981,044</b>	<b>\$15,161,370</b>

<sup>(1)</sup> Amount represents the net of unused issuance cost budget and unearned interest earnings.



## Section C Stormwater Service Assessment Program Report

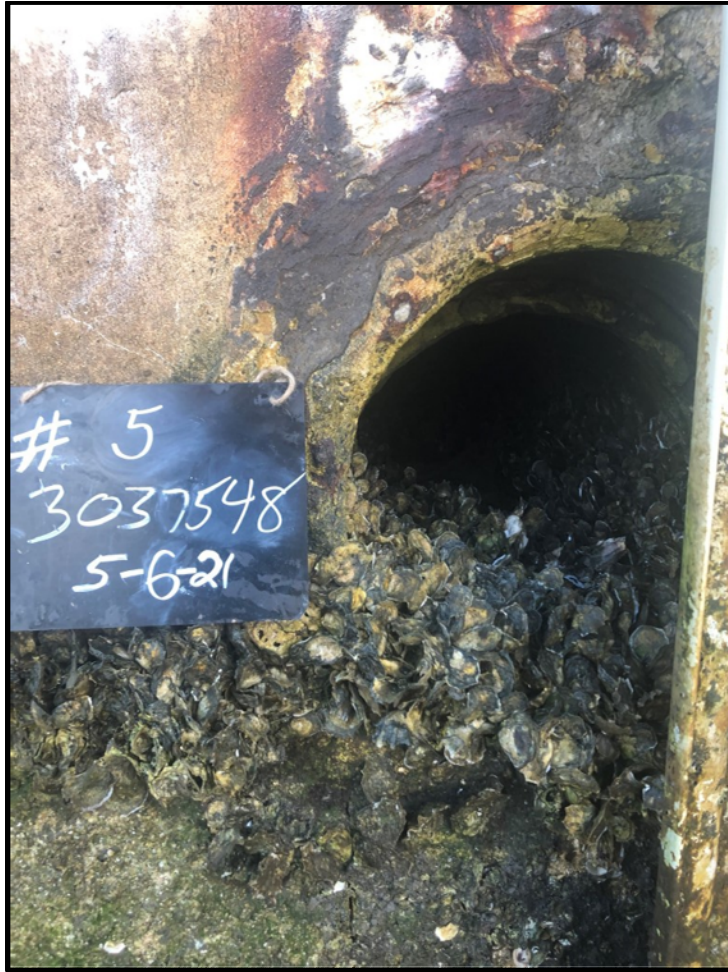
### Tampa City Council Update No. 19 - September 2021

Maintenance activities are reported based on service level frequency. Below is a list of the primary maintenance categories that are being tracked. Along with service level cycle times, we have also provided maintenance statistics for the quarter.

Operations and Maintenance Activities	Pre Fee Service Levels	Fee Target Service Levels	3 <sup>rd</sup> Quarter FY21 & Year to Date Service Levels
Ditches	10-Year Cycle	7-Year Cycle	10.1-Year Cycle (3 <sup>rd</sup> Qtr.) 7.4-Year Cycle (Y.T.D)
Ponds	Minimal	3-Year Cycle	3-Year Cycle (3 <sup>rd</sup> Qtr.) 3-Year Cycle (Y.T.D)
Pipes	10-Year Cycle	7-Year Cycle	9.5-Year Cycle (3 <sup>rd</sup> Qtr.) 7.4-Year Cycle (Y.T.D)
Outfalls	15-Year Cycle	5-Year Cycle	1.7-Year Cycle (3 <sup>rd</sup> Qtr.) 6.4-Year Cycle (Y.T.D)
Pumps	Low Preventative Maintenance	Annual Preventative Maintenance	1-Year Cycle
Street Sweeping	90-Day Cycle	60-Day Cycle	57-Day Cycle (3 <sup>rd</sup> Qtr.) 55-Day Cycle (Y.T.D)
Operations and Maintenance Activities	3 <sup>rd</sup> Quarter Maintenance Statistics		
Ditches	24,661 linear feet of ditches maintained with 2,938 tons removed, 22 fallen trees removed, 441,765 linear feet of ditch mowed monthly with 8.45 tons of trash removed.		
Ponds	5.26 tons of trash and illegal dumping have been disposed of, there have been 116 herbicide treatments to various ponds, 126 stormwater ponds mowed monthly. 1,093 linear feet of pond fencing replaced.		
Pipes	72,914 linear feet of storm drainage pipe inspected and maintained, 1,221 storm drain inlets and manholes inspected and maintained with 432 tons of debris removed. 26 cave-ins and 28 inlet tops repaired. 1,542 feet of box culvert cleaning with 300 tons removed.		
Outfalls	131 outfalls inspected and maintained.		
Pumps	Preventative Maintenance provided to all thirteen (13) stormwater pump stations. Proactive maintenance and inspections totaled 221 Manhours.		
Street Sweeping	6,649 curb miles were swept, approximately 1,242 tons of debris removed.		



**West Peninsula Outfall Maintenance – 5840 Mariner St.**



**Before**



**After**

**West Peninsula Outfall Maintenance – 4945 W. Bay Way Dr.**



**Before**



**After**



## **5610 La Salle St. Ditch Clearing**



**Before**



**After**