



Pent Street and Grosse Avenue

Drainage and Roadway Improvements

Stormwater Action Plan No. 5



Public Meeting

November 19, 2019

Welcome & Introductions



- Sign-in and comment sheets
- Restrooms and exits
- Meeting agenda and timeline
- Meeting goals / expectations
 - Provide project information
 - Answer questions
- November 16, 2017 – First Public Meeting

AGENDA

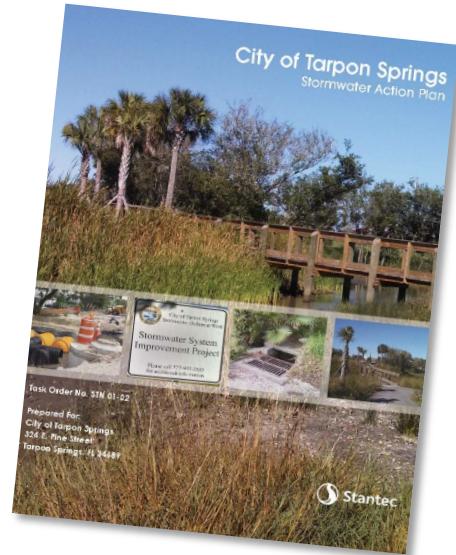
1. Welcome & Introductions
2. Project Understanding
3. Existing Conditions
4. Proposed Improvements
5. Funding & Partnership
6. Schedule
7. Construction Phasing

Project Understanding: Project History and Intent



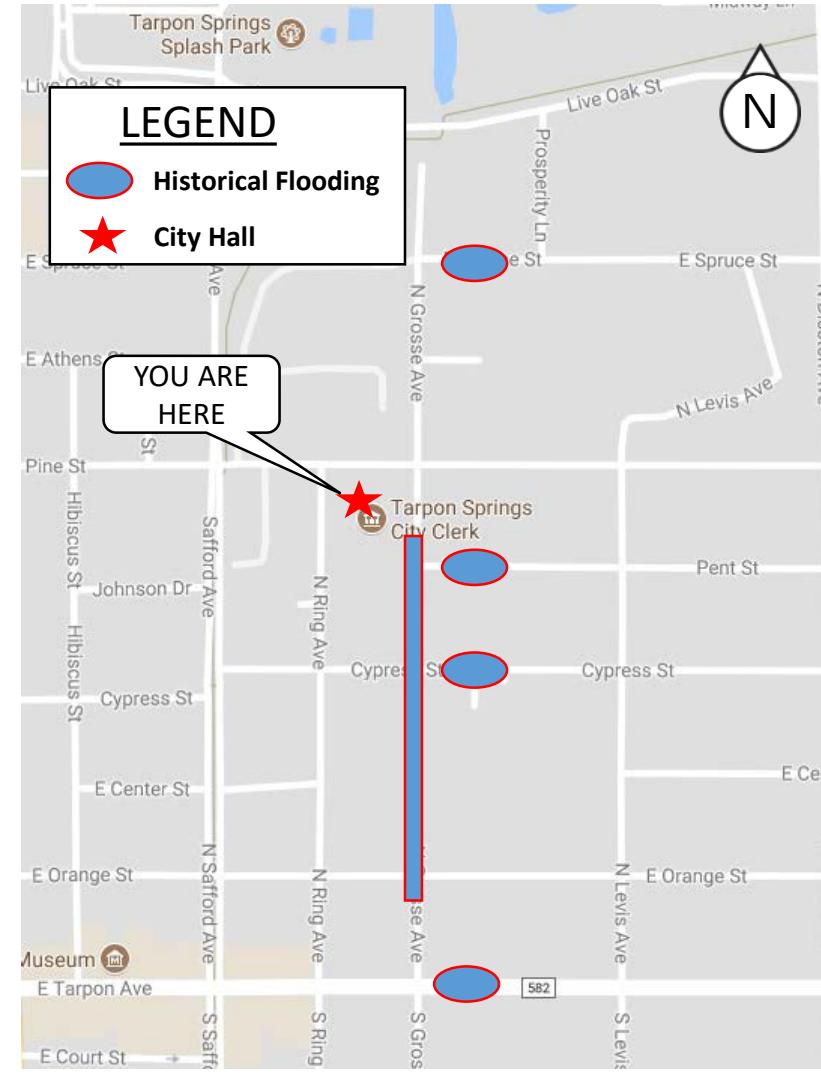
• Project History

- 1992 Master Drainage Study
- 2009 Stormwater Action Plan (Phase 1)
- 2010 Stormwater Action Plan (Phase 2)
 - Development of City's Stormwater Capital Improvement Program (CIP)
- 2016 Design & Permitting



• Project Intent

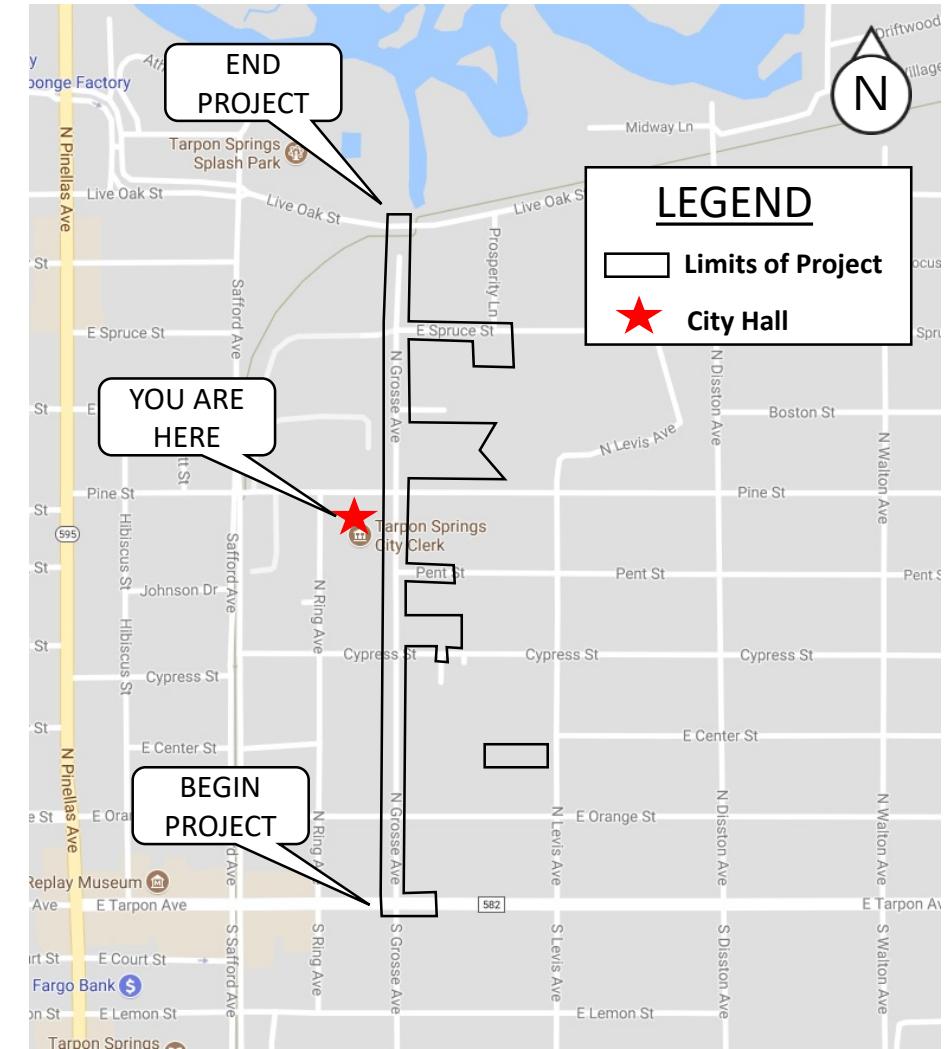
- Reduce roadway and private property flooding extents, elevation, and duration
- Provide water quality improvements



Project Understanding: Project Location



- Tarpon Avenue (Hurricane Evacuation Route); east of Grosse Avenue
- Grosse Avenue; Tarpon Avenue to Live Oak Street
- Cypress Street; Northeast corner of Cypress Street / Grosse Avenue intersection
- Pent Street; east of Grosse Avenue
- Tarpon Springs Elementary School
- E. Spruce Street; east of Grosse Avenue
- Live Oak Street





Existing Conditions

- Wet Field Review
- 24-hour rainfall = 2.35 inches
- 88% of West Central Florida rainfall events exceed 1.0 inch (NOAA)



Tarpon Ave. Facing East



Orange St. & Grosse Ave. Facing North



Grosse Ave. North of Orange St., Facing North



Grosse Ave. & Cypress St., Facing Northeast

Existing Conditions



Cypress Ave.; East of Grosse Ave., Facing East



Grosse Ave. & Pent St., Facing North



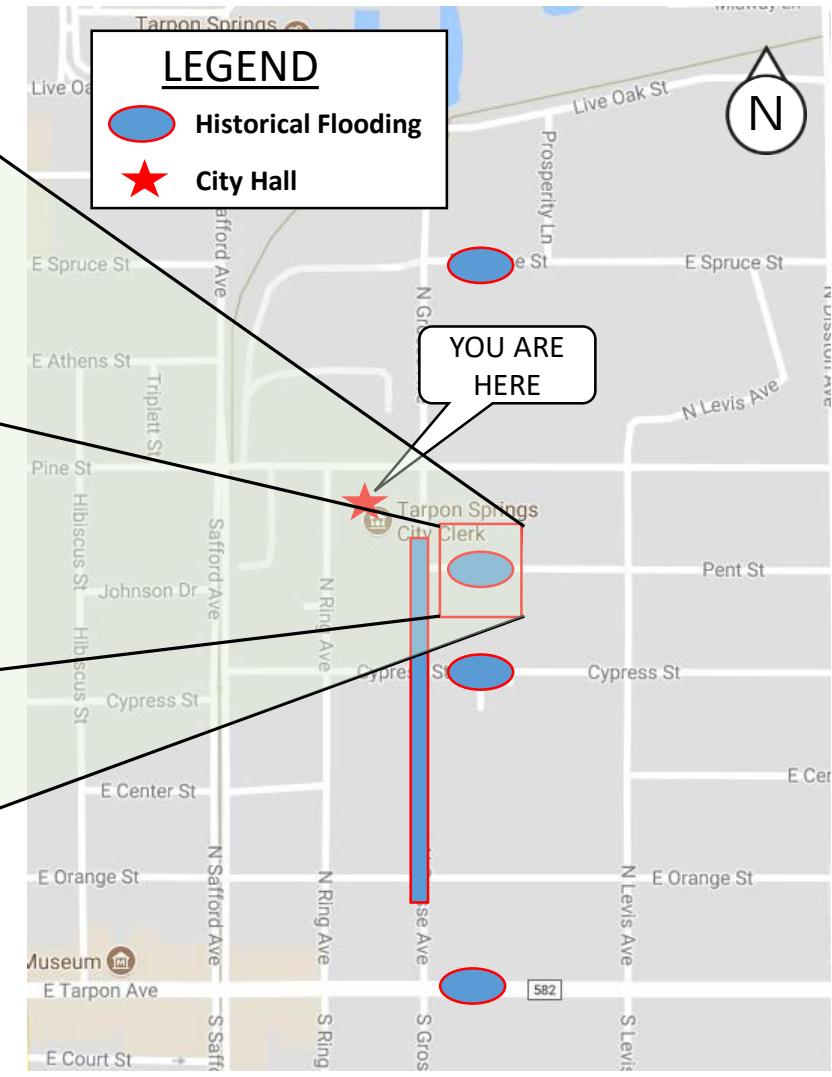
Pent St. East of Grosse Ave., Facing Southeast



Pent St. East of Grosse Ave., Facing West



Existing Conditions



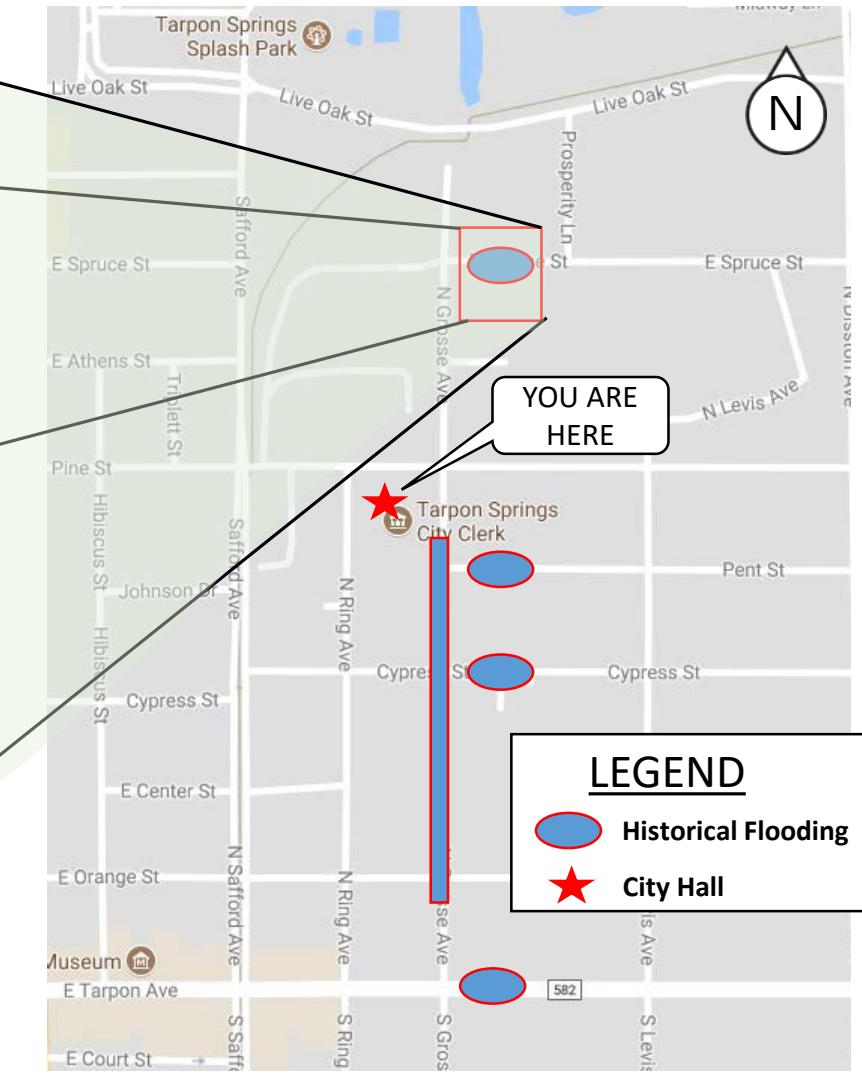
Pent Street; East of Grosse Avenue



Existing Conditions

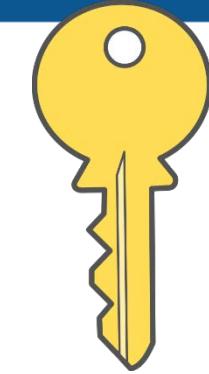


Spruce Street; East of Grosse Avenue



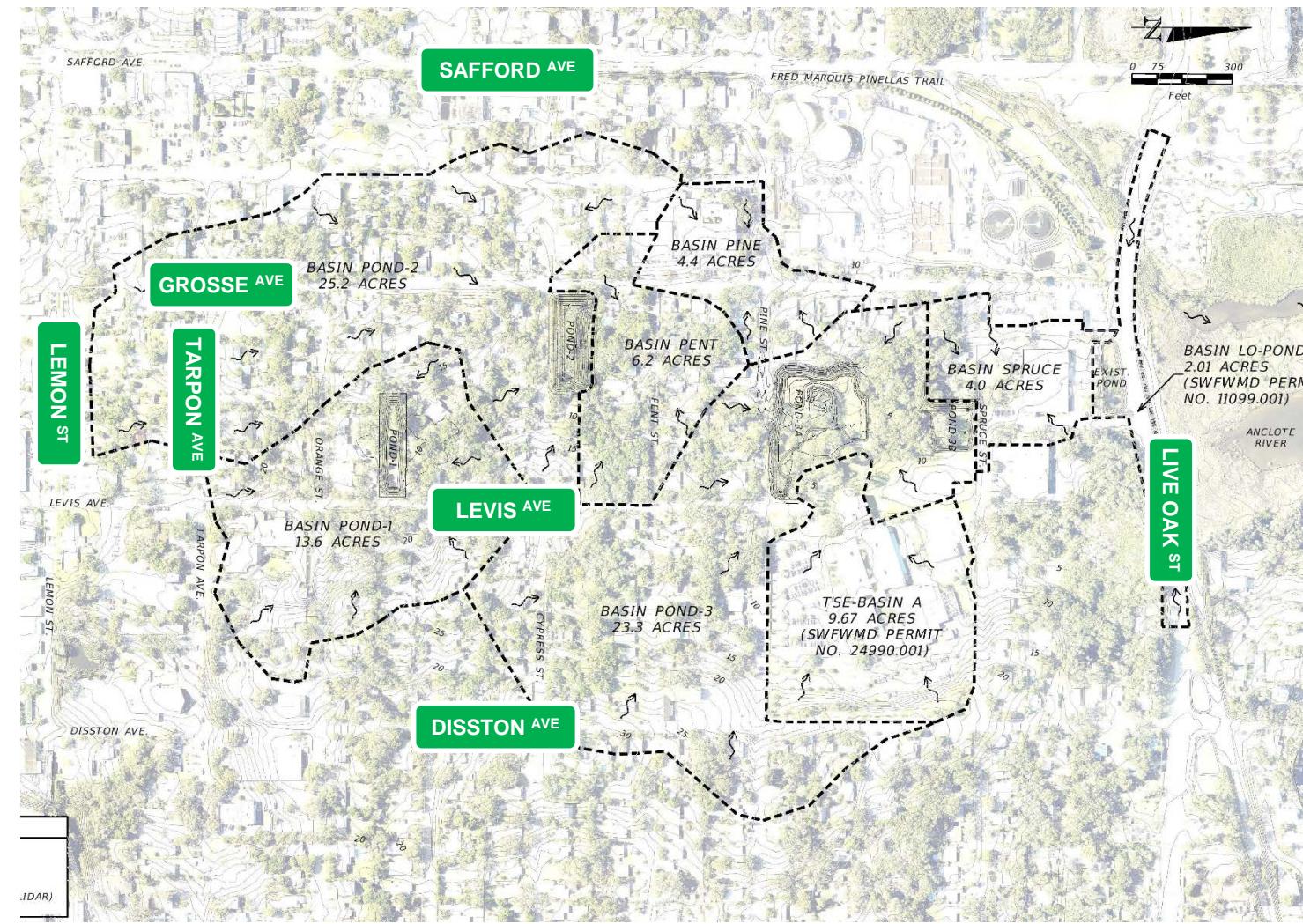


Existing Conditions

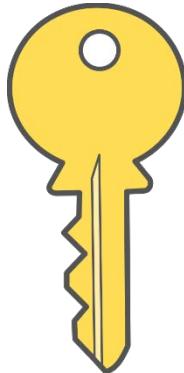


Key Issues

- Large developed watershed (+88 acres) = high runoff
- 1 inch of rainfall over 88 acres = 2.3 million gallons of water
- 5.3 feet on a football field

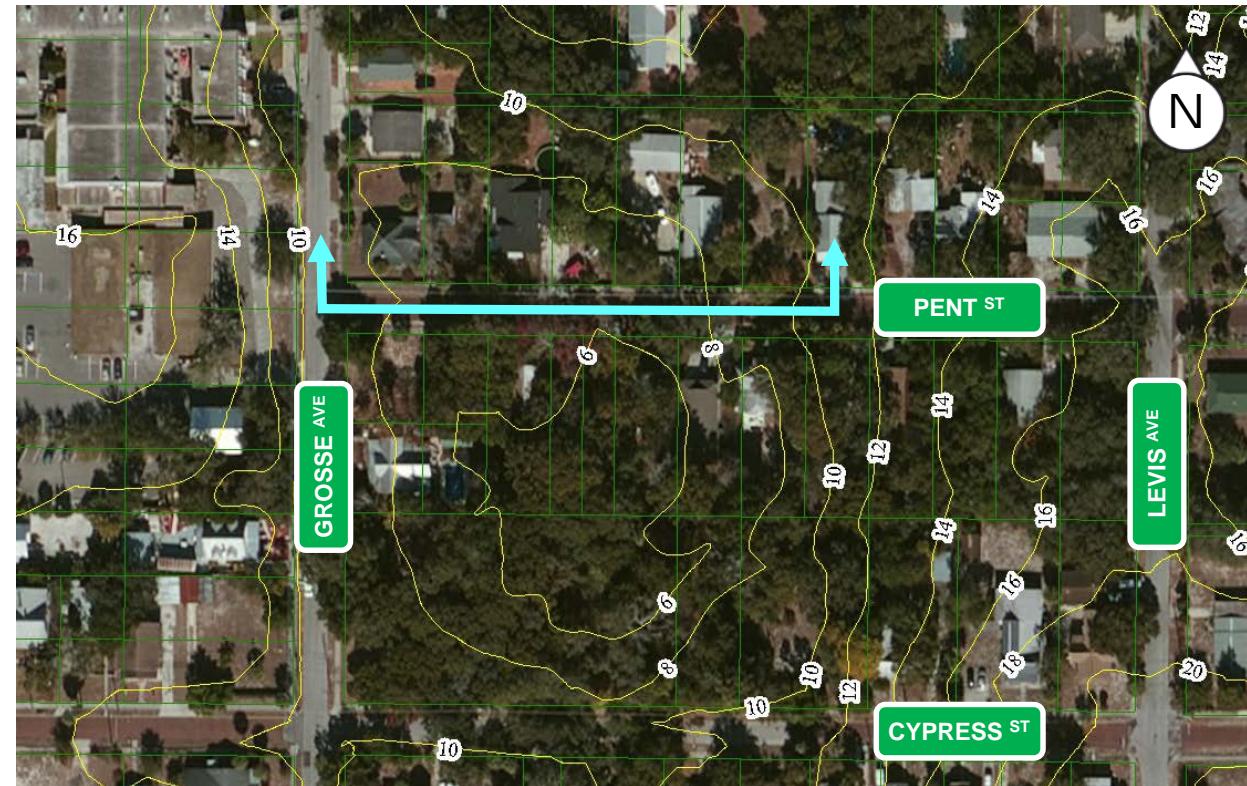


Existing Conditions



Key Issues

- Unique topography
- No stormwater infrastructure
- Flat roadway (Grosse Avenue)



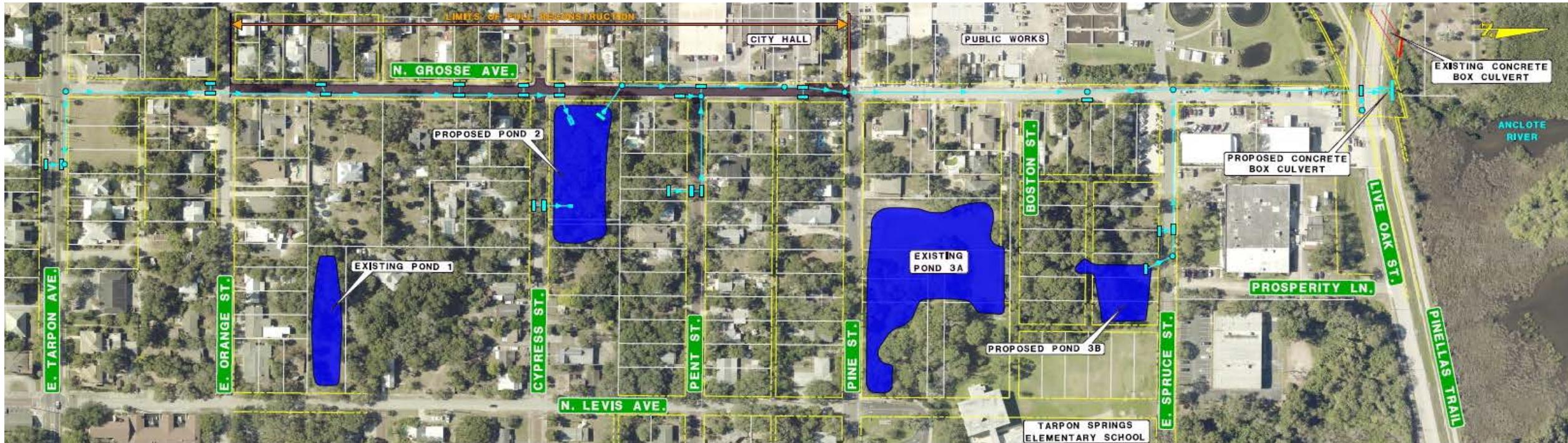
Proposed Stormwater Improvements



A yellow key icon with a black outline, representing a password or security key.

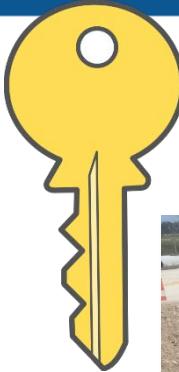
Key Resolutions

- Install stormwater infrastructure
- Create storage (stormwater ponds)
- Reconstruct Grosse Avenue Profile (E. Orange St. – Pine St.)





Proposed Stormwater Improvements



Key Resolution - Install Stormwater infrastructure



Stormwater manhole and pipe



Roadside inlet



Ditch bottom inlet (Riverside Drive – Tarpon Springs)

Proposed Stormwater Improvements



Key Resolution – Create storage (Stormwater ponds)

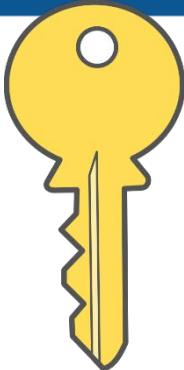
- Pond 1: Levis Ave. – Expand existing
- Pond 2: Cypress St. – New pond
- Pond 3A: Pine St. – Expand existing
- Pond 3B: Spruce St. – New pond



Reduce flooding AND
improve water quality!!



Proposed Stormwater Improvements



Key Resolution – Reconstruction of Grosse Avenue Profile (E. Orange St. – Pine St.)



MATCH EXISTING

PROPOSED PROFILE

EXISTING PROFILE

MATCH EXISTING

Existing Profile

- Flat = water ponds; unsafe (hydroplaning)

Proposed Profile

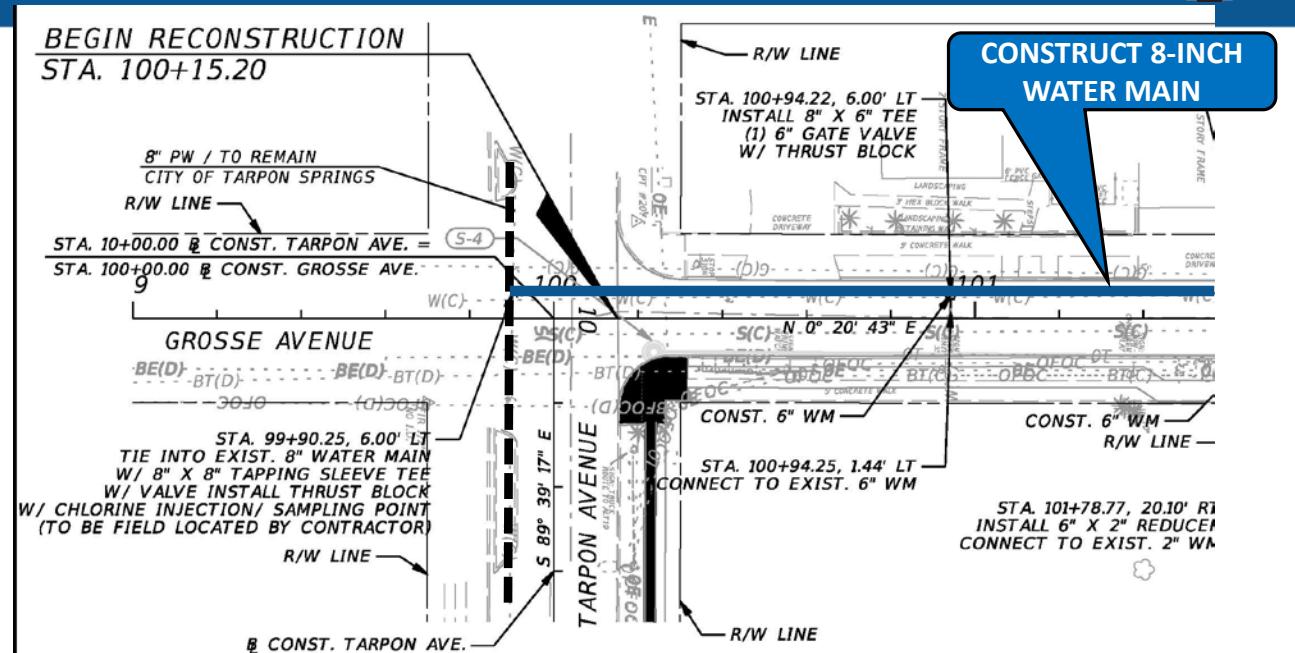
- Sloped = water drains; safer

Proposed Utility Improvements



Potable Water Improvements

- Existing 6-inch PVC water main
- Proposed 8-inch PVC water main





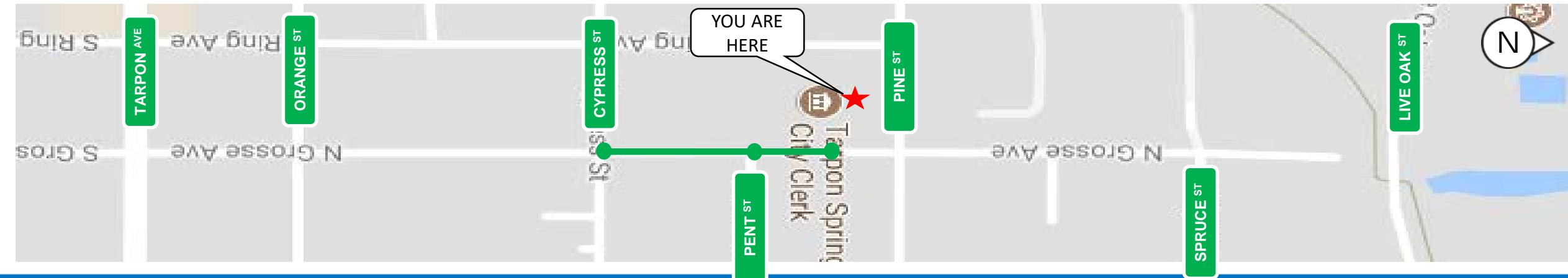
Proposed Utility Improvements

Sanitary Sewer Improvements

- Existing 8-inch clay gravity sewer
 - Brittle
 - If cracked, allows infiltration and roots (blockage)
- Proposed 8-inch PVC gravity sewer
- 3 new sanitary manholes



(Not actual photograph of existing 8-inch sanitary line)

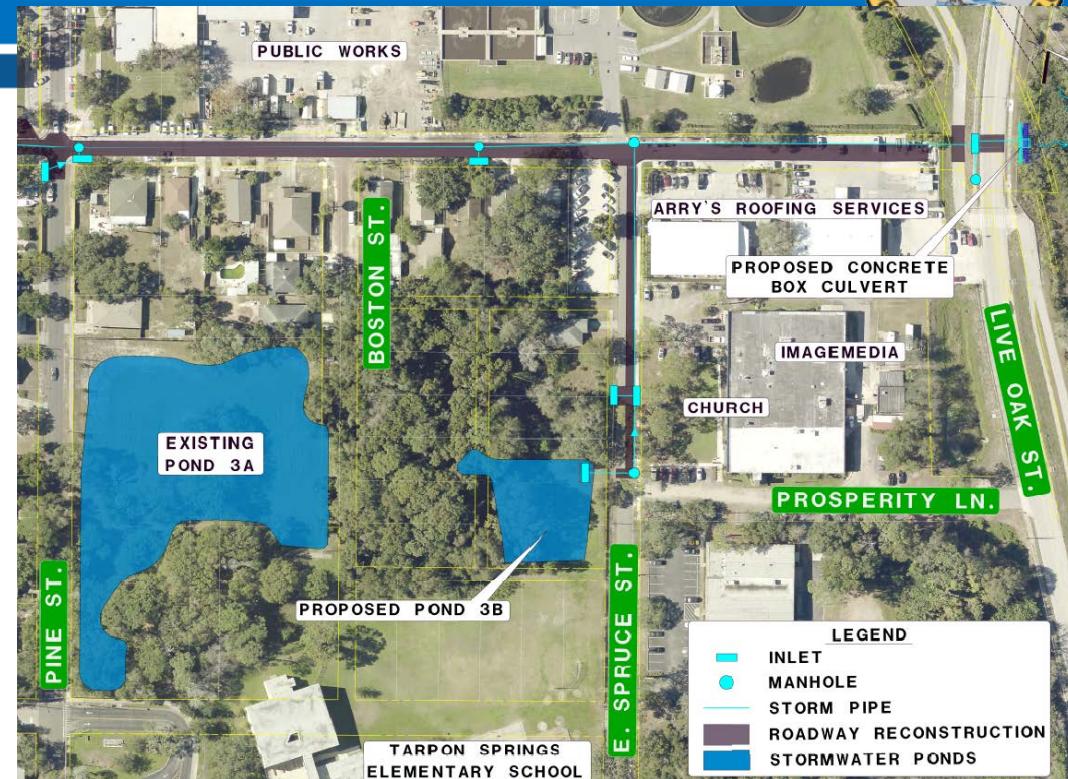


Partnership

Pinellas County School Board Partnership
KEY partnership for project's success!!!



Southwest Florida Water Management District



Funding



Fee ID	Fee	Funding Source
Design & Permitting	\$189,449	City of Tarpon Springs Streets & Stormwater
Design & Permitting	\$65,255	City of Tarpon Springs Water Utility
Total	\$254,704	City of Tarpon Springs



Southwest Florida Water Management District Grant = \$1,368,400



Current Schedule

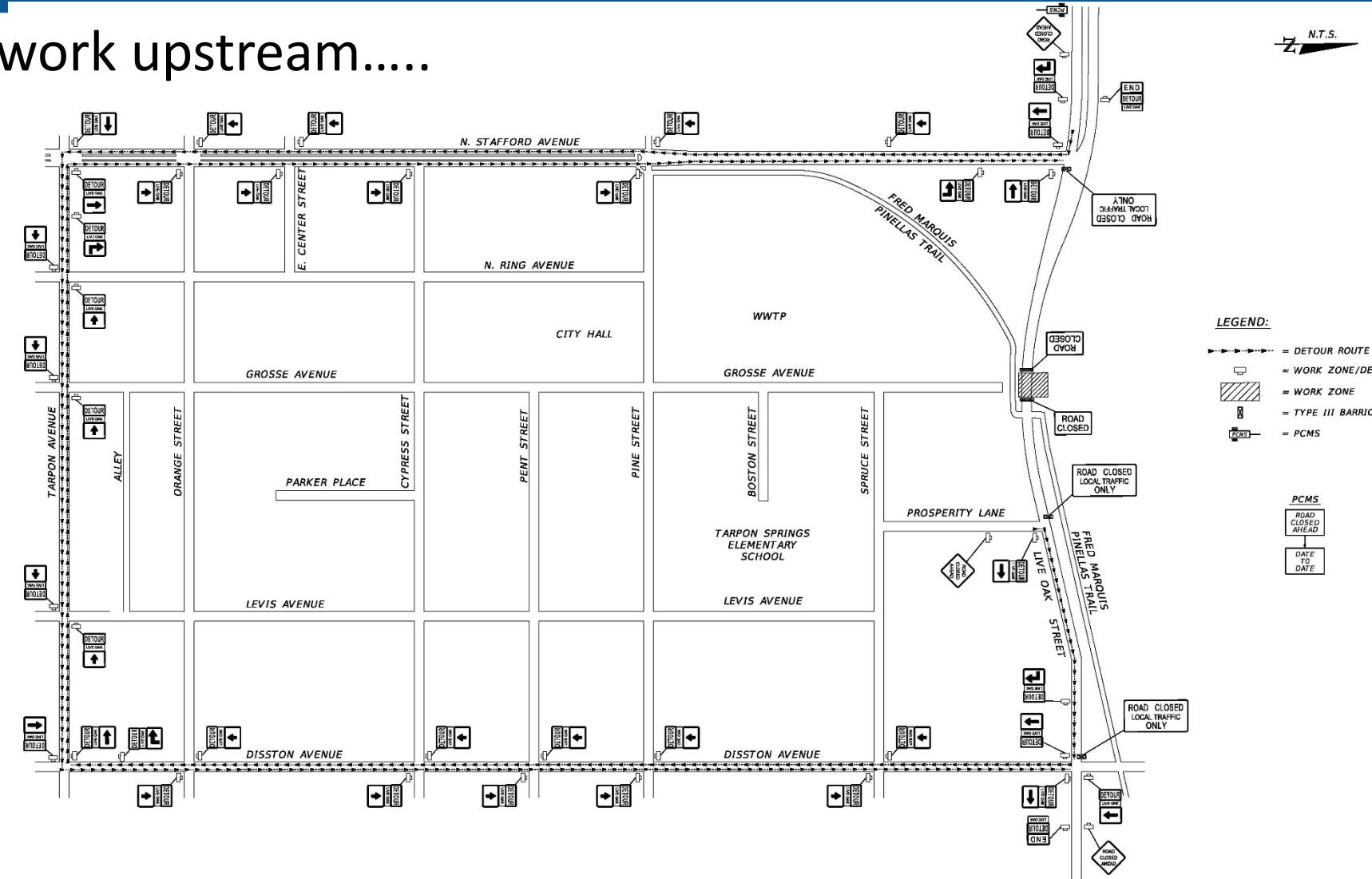
TASK	SCHEDULE
Finalize Design	October 2019
Constructing Bidding	December 2019
Construction Period	February 2020 – April 2021



Construction Phasing – Live Oak Street

Start downstream and work upstream.....

- Live Oak Street Road Closure
- Concrete box culvert construction at Live Oak Street

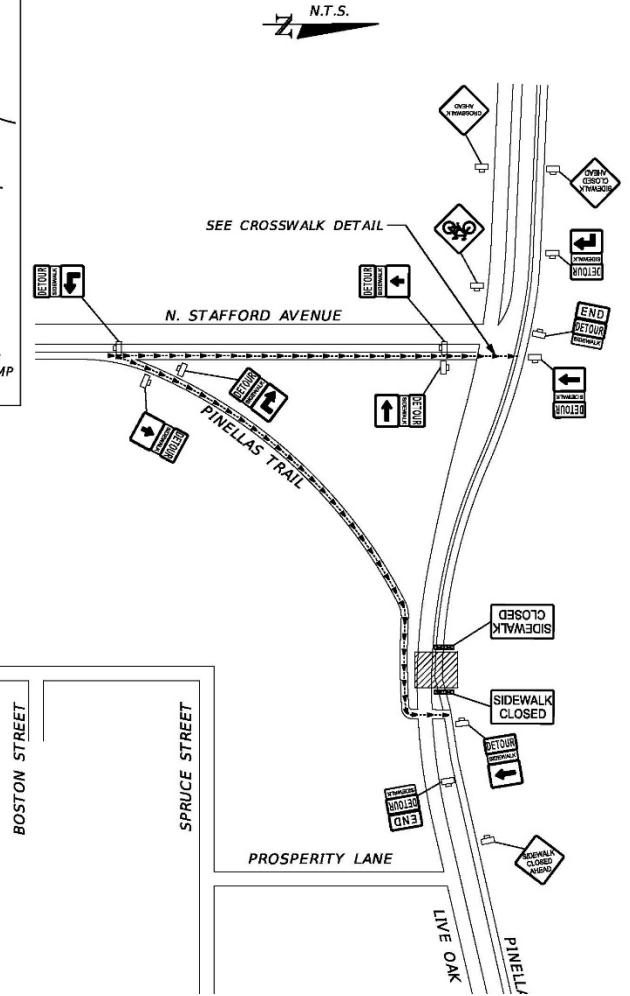
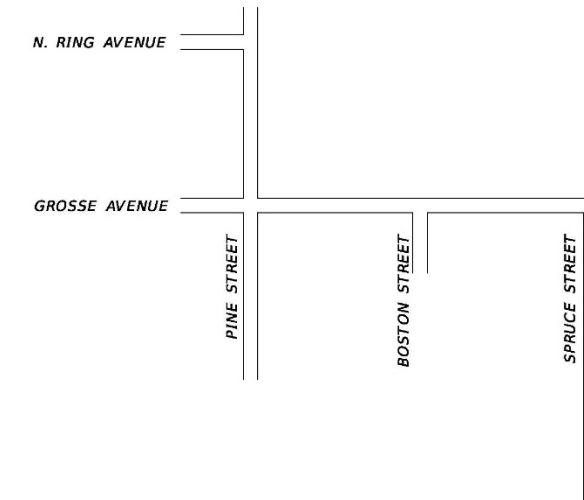
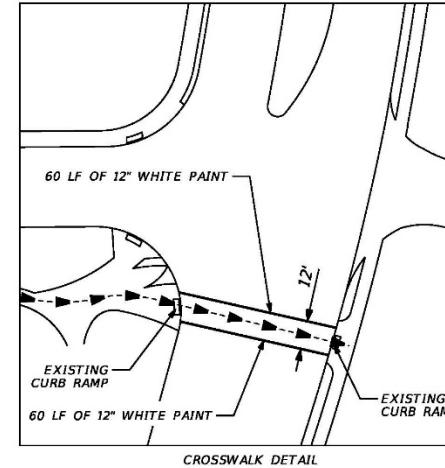


Construction Phasing – Live Oak Street



Phase I - Pedestrians

- Live Oak Street Road Closure
- Pinellas Trail remains open

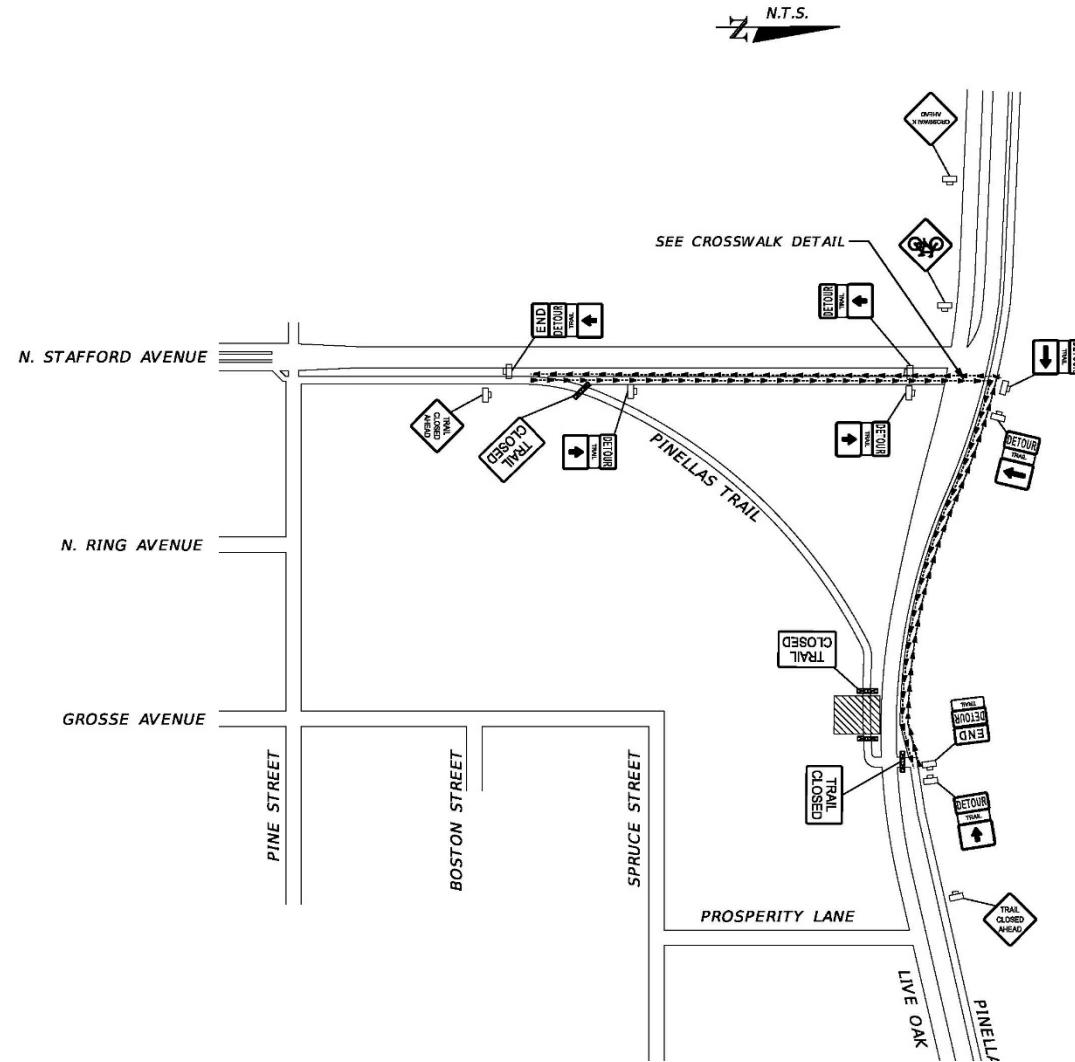




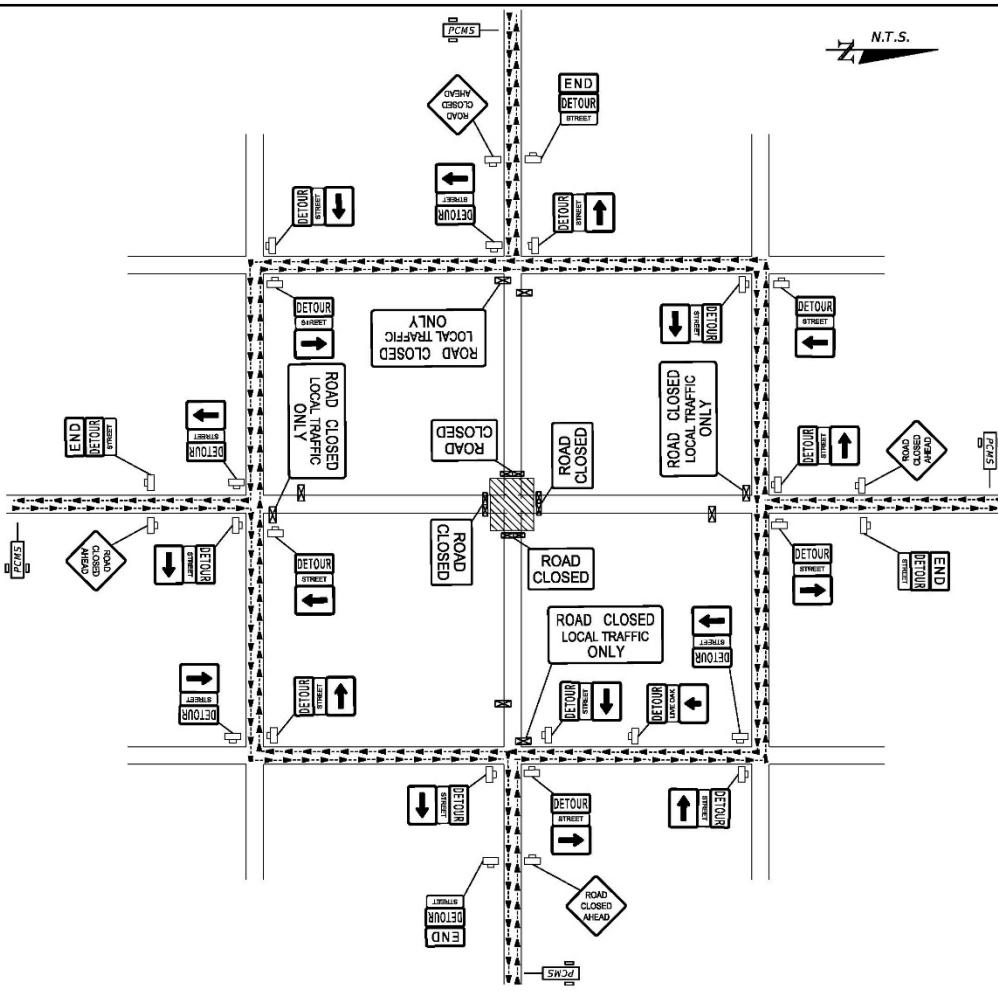
Construction Phasing – Live Oak Street

Phase II - Pedestrians

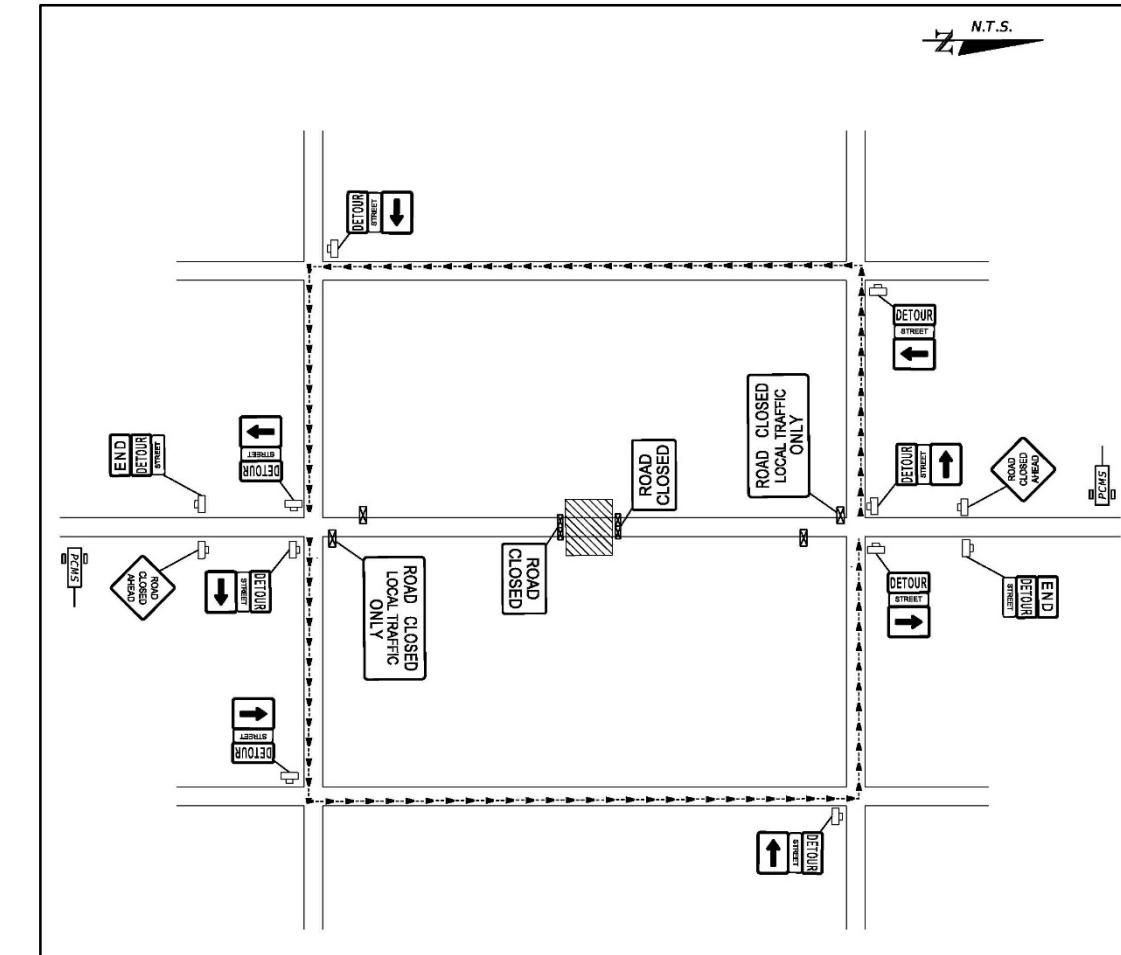
- Live Oak Street Road Closure
- Pinellas Trail remains open



Construction Phasing – Grosse Avenue



Intersection Construction



Mid-Block Construction

Thank You!



**City of Tarpon Springs Project Manager:
Anthony “Tony” Mannello – Streets and Stormwater Supervisor**

727-942-5610

[**https://www.ctsfl.us/flood%20questionnaire.htm**](https://www.ctsfl.us/flood%20questionnaire.htm)

SWFWMD Project Manager:

Robert McDonald, PE

352-796-7211

Questions?

ICON Consultant Group, Inc. Project Manager:

Bryan Anderson, PE

813-962-8689



Streets & Stormwater

Contact Information: (727) 942-5606, 324 East Pine St

For after hour emergencies please contact the city's Emergency Answering Service at (727) 234-4944

The department is responsible for maintenance and construction of city streets and

[Complete our Flood Prevention Planning Questionnaire!](#)

Learn more about our Wastewater / Stormwater Systems:
[Video](#); [Stormwater and Sanitary Sewer Systems](#)

Quick Links

[Report A Problem](#)