

Fiscal Year 2019-2020 Big Cypress Basin Regional Partnership Projects

Shawn Meyer
Lead Project Manager
October 24, 2019

Program Objectives

- Work alongside regional partners for construction of water quality, stormwater management and alternative water supply projects that align with the South Florida Water Management District's/Big Cypress Basin's mission, the Basin's Strategic Plan and Lower West Coast Water Supply Plan

Fiscal Year 2019-2020 Budget

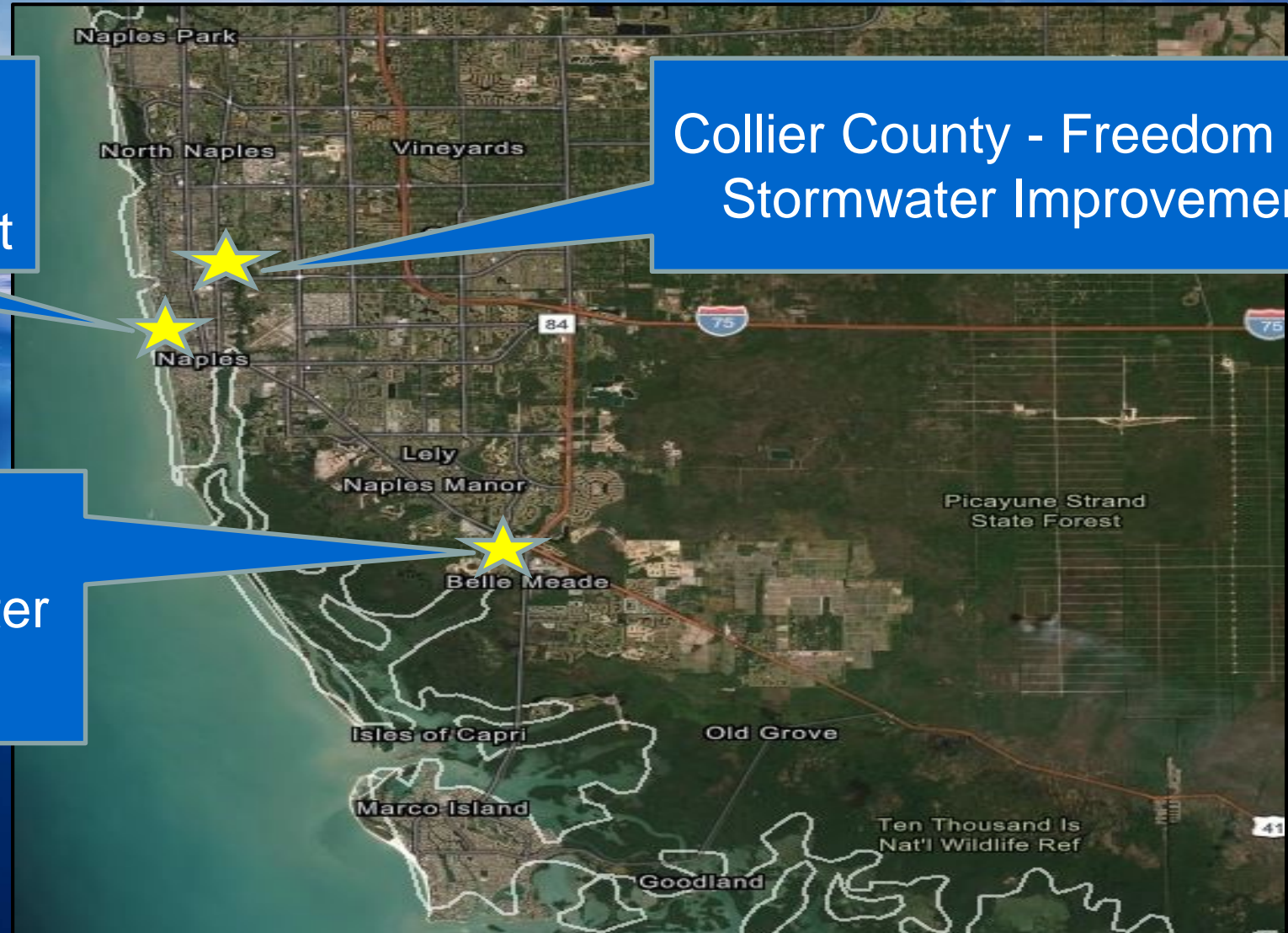
FISCAL YEAR 2019-2020 FINAL REGIONAL PARTNERSHIP PROJECT BUDGET	
Project Name	Total Funded
SR-29 Canal Maintenance	\$ 62,500
Gound Water Monitoring	\$ 70,000
Surface WQ Monitoring	\$ 65,000
Lake Trafford Water Quality Improvement Projects	\$ 250,000
Regional Partnership Projects **	\$ 1,400,698
TOTAL	\$ 1,848,198
**subject to approval by Basin Board October 24, 2019 for Fiscal Year 2019-2020	

Fiscal Year 2019-2020 Regional Partnership Projects

City of Naples - Beach
Restoration and Water
Quality Improvement Project

Collier County - Freedom Park
Stormwater Improvements

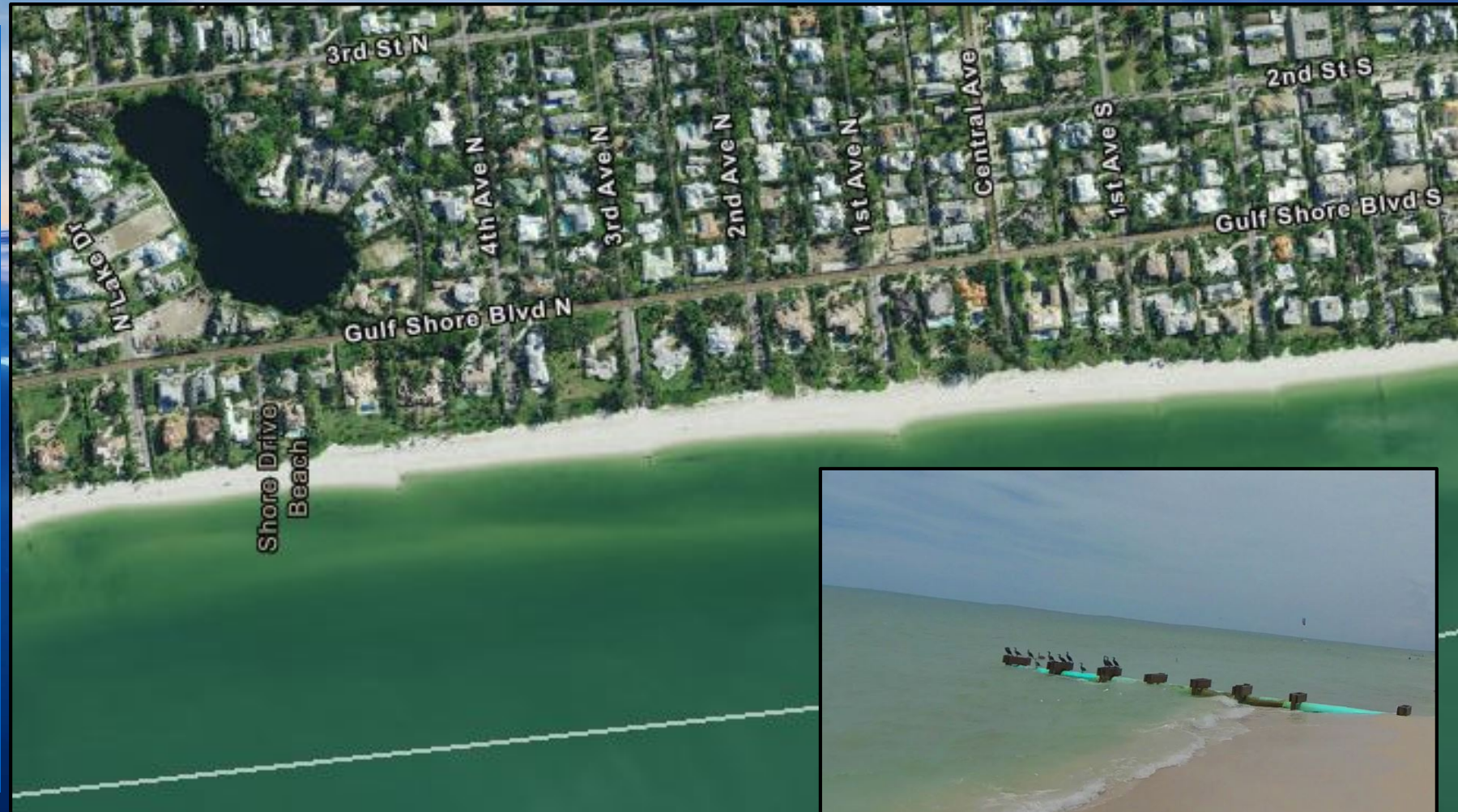
Collier County – Phase 1
Griffin Road Area Stormwater
Improvement Project



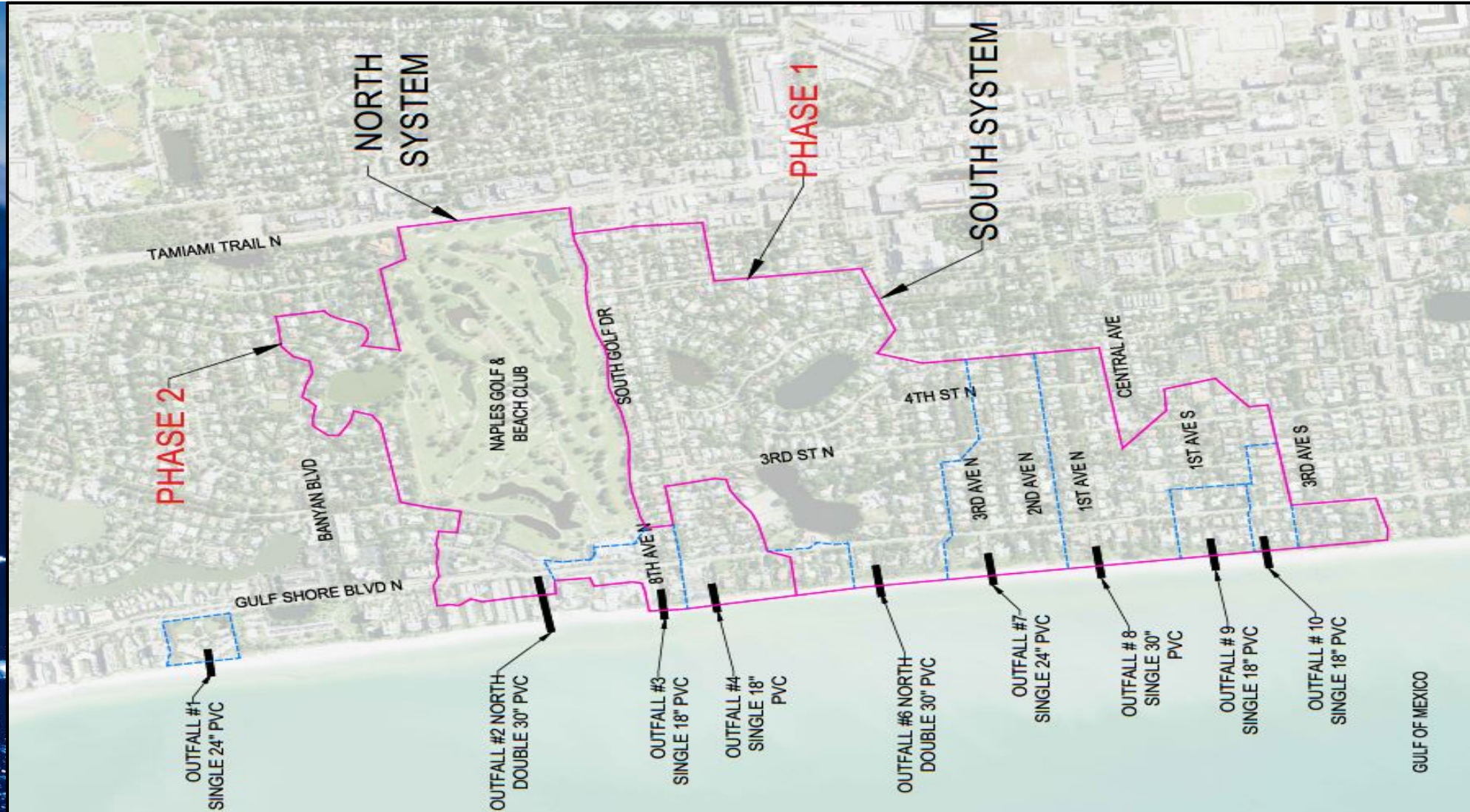
City of Naples - Beach Restoration and Water Quality Improvements

Purpose: To improve stormwater infrastructure that addresses:

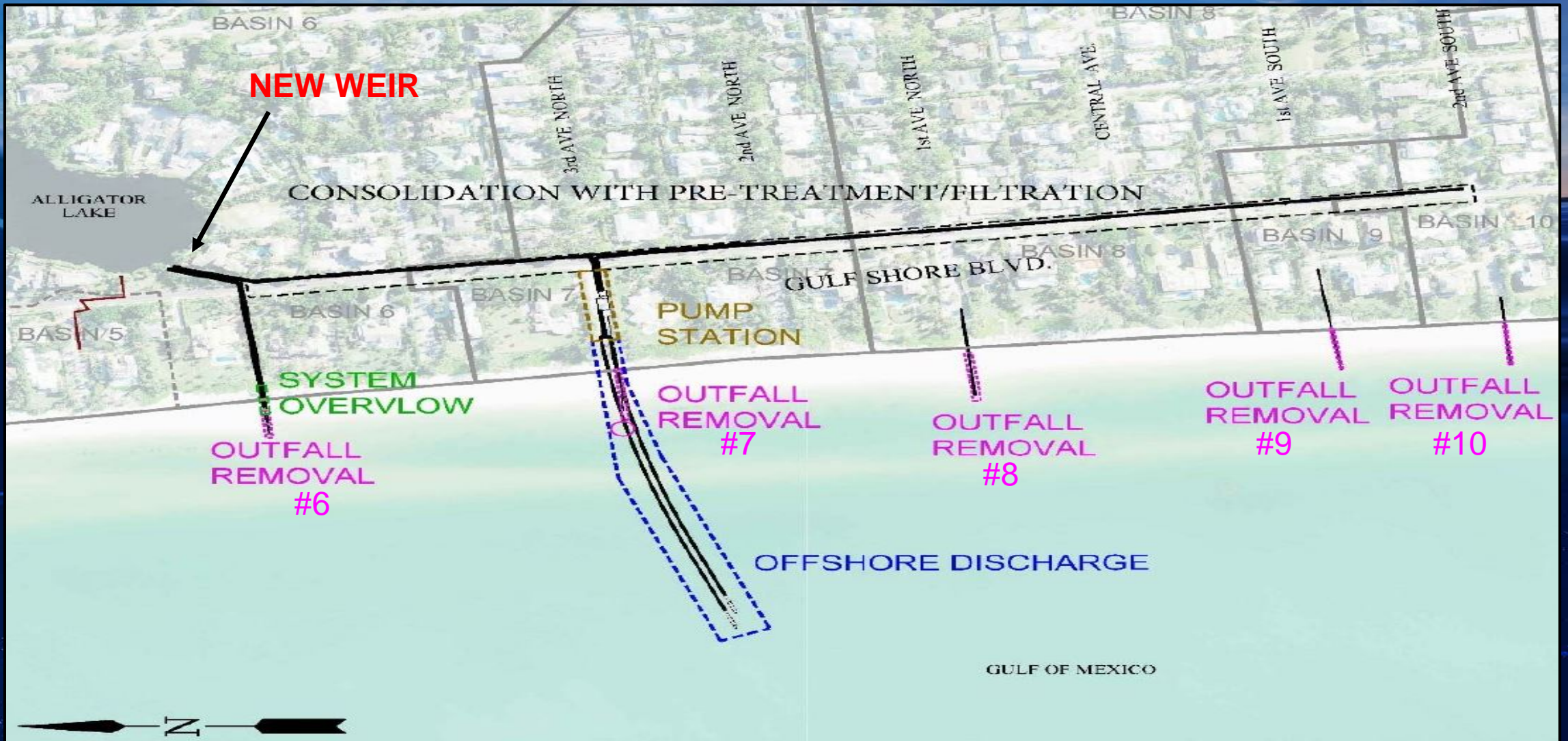
- Flooding
- Excess bacteria and nutrient loads
- Wildlife habitat issues
- Beach erosion



Beach Restoration and Water Quality Improvements

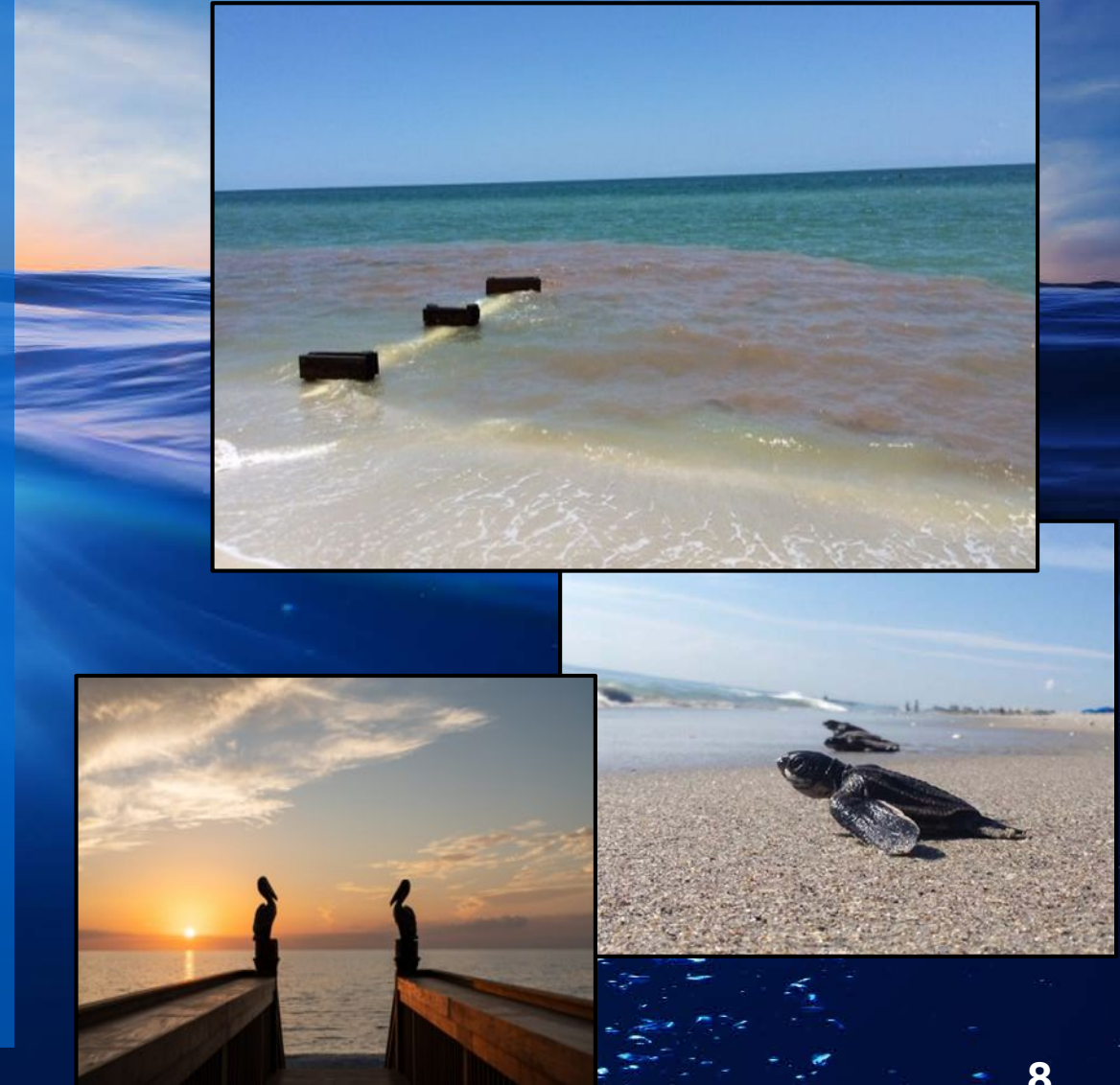


Project Key Components Overview (Phase 1)



Beach Restoration and Water Quality Improvement Project

- Benefits to include:
 - Remove beach outfalls 6-10 which will reduce beach erosion and improve wildlife habitat for nesting sea turtles
 - Reduce flooding through the area
 - Predicted water quality improvements
 - Total Nitrogen – 29%
 - Total Phosphorus – 50%
 - Total Suspended Solids – 70%
- Project Cost: ~\$9.5M
- Eligible Cost: ~\$8.9M
- Requested Funding: ~\$1.2M – 14%



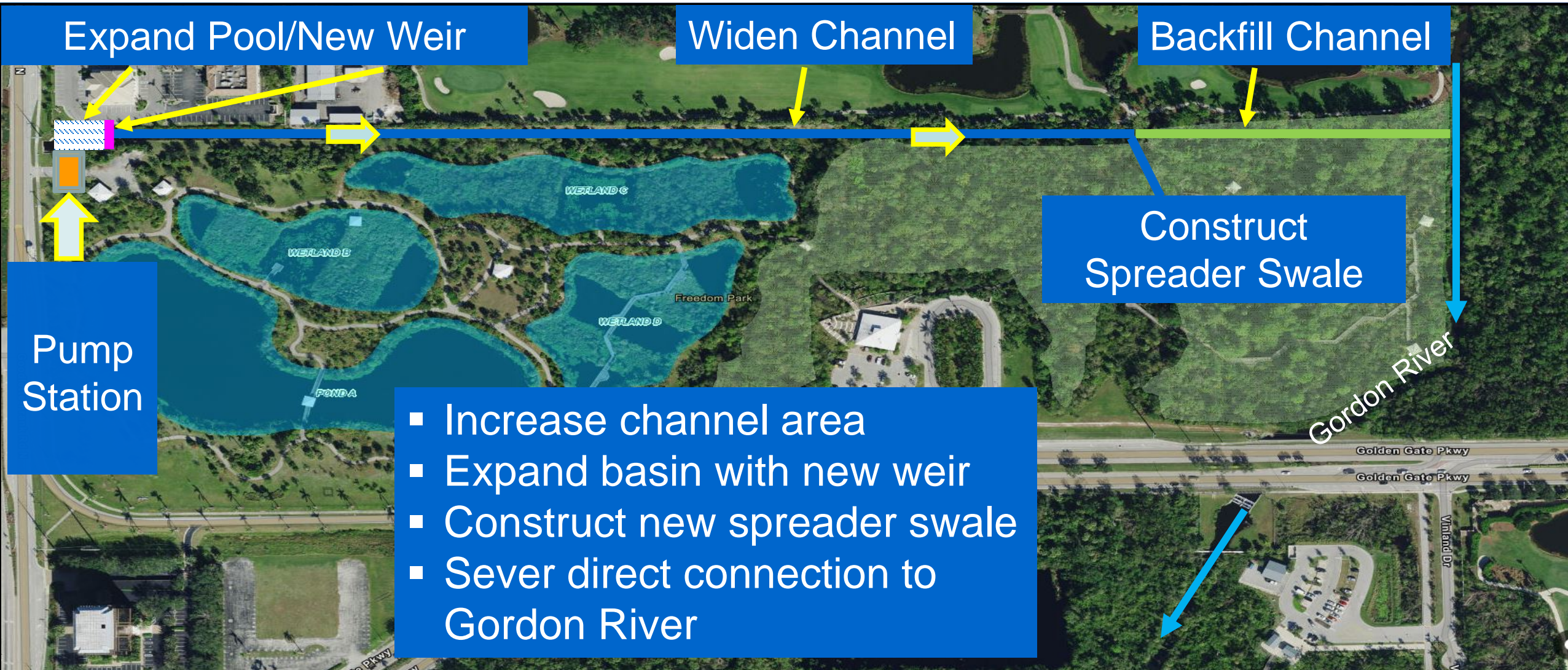
Collier County - Freedom Park Stormwater Improvements

Purpose: Reduce flooding in localized areas and improve water quality going to the Gordon River:

- Increase channelized stormwater conveyance
- Eliminate point source discharge from channel to Gordon River
- Provide additional nutrient uptake through a new spreader swale
- Total Nitrogen reduced by ~55% and Total Phosphorus by ~70% on average



Freedom Park Stormwater Improvements



Freedom Park Stormwater Improvements

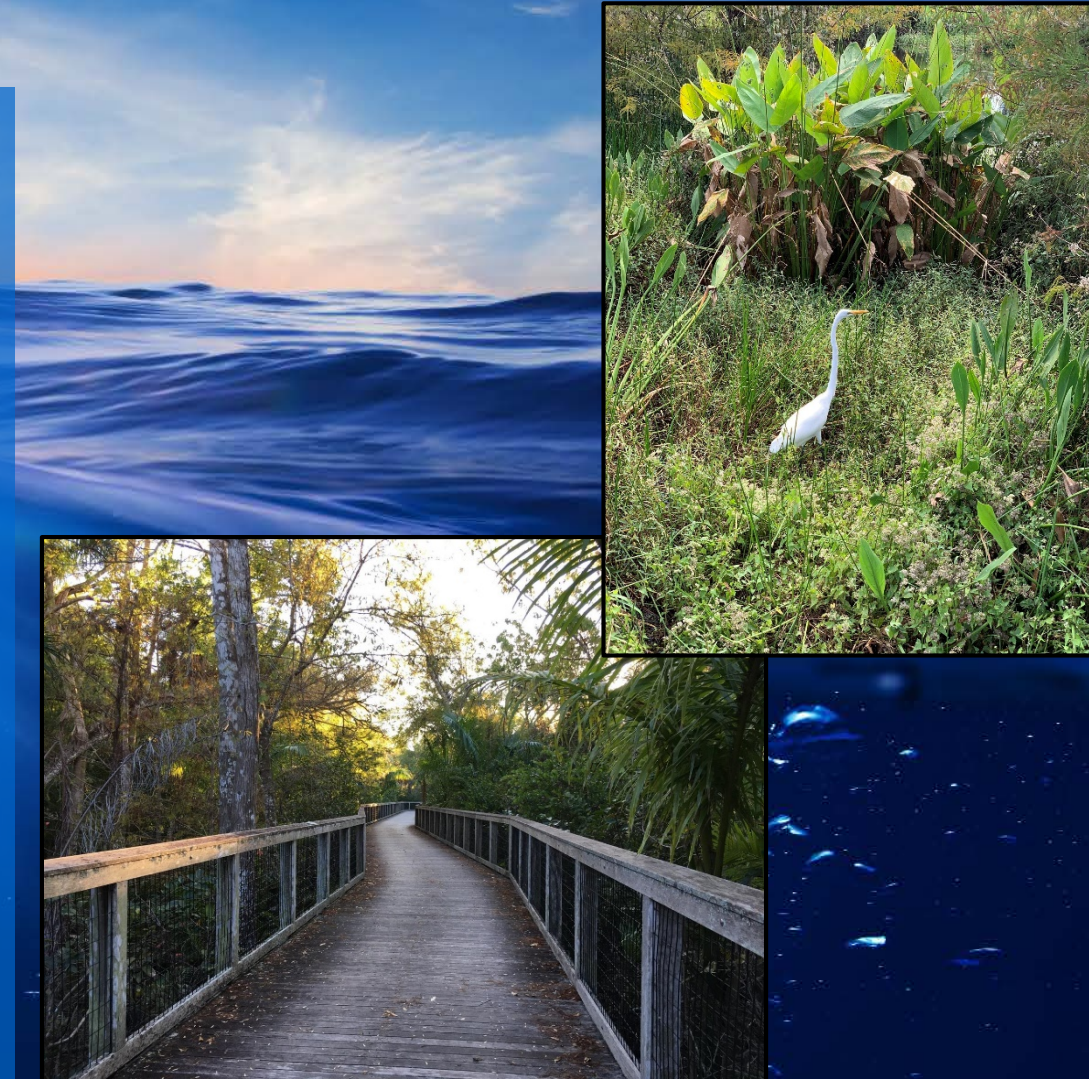
- Benefits:

- Reduce flooding in residential areas which remain on septic systems
- Remove point source discharge from channel to Gordon River
- Improve conveyance through the channel and into natural wetlands

- Project Cost: ~\$1.9M

- Eligible Cost: ~\$1.4M

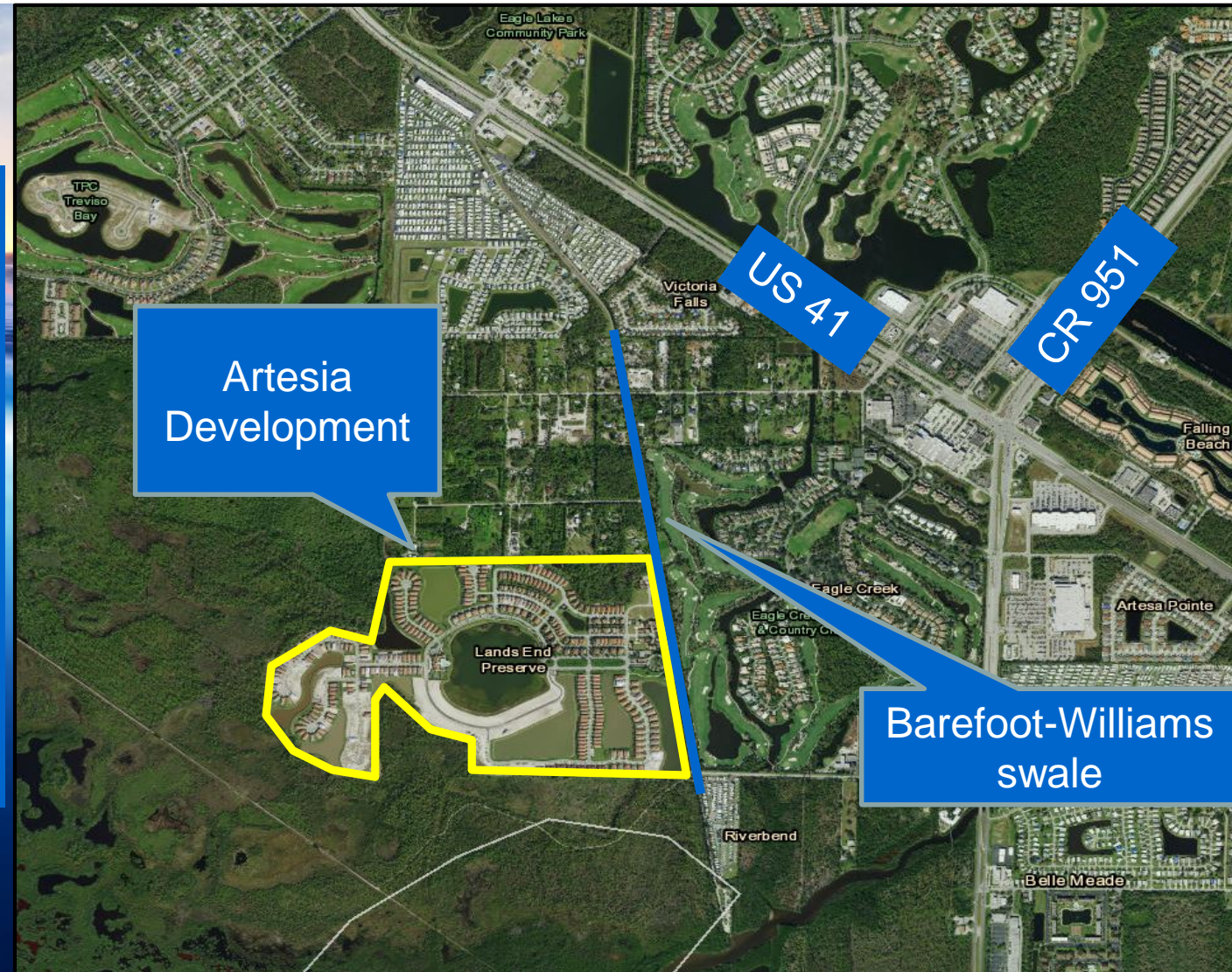
- Requested Funding: \$717,560 – 50%



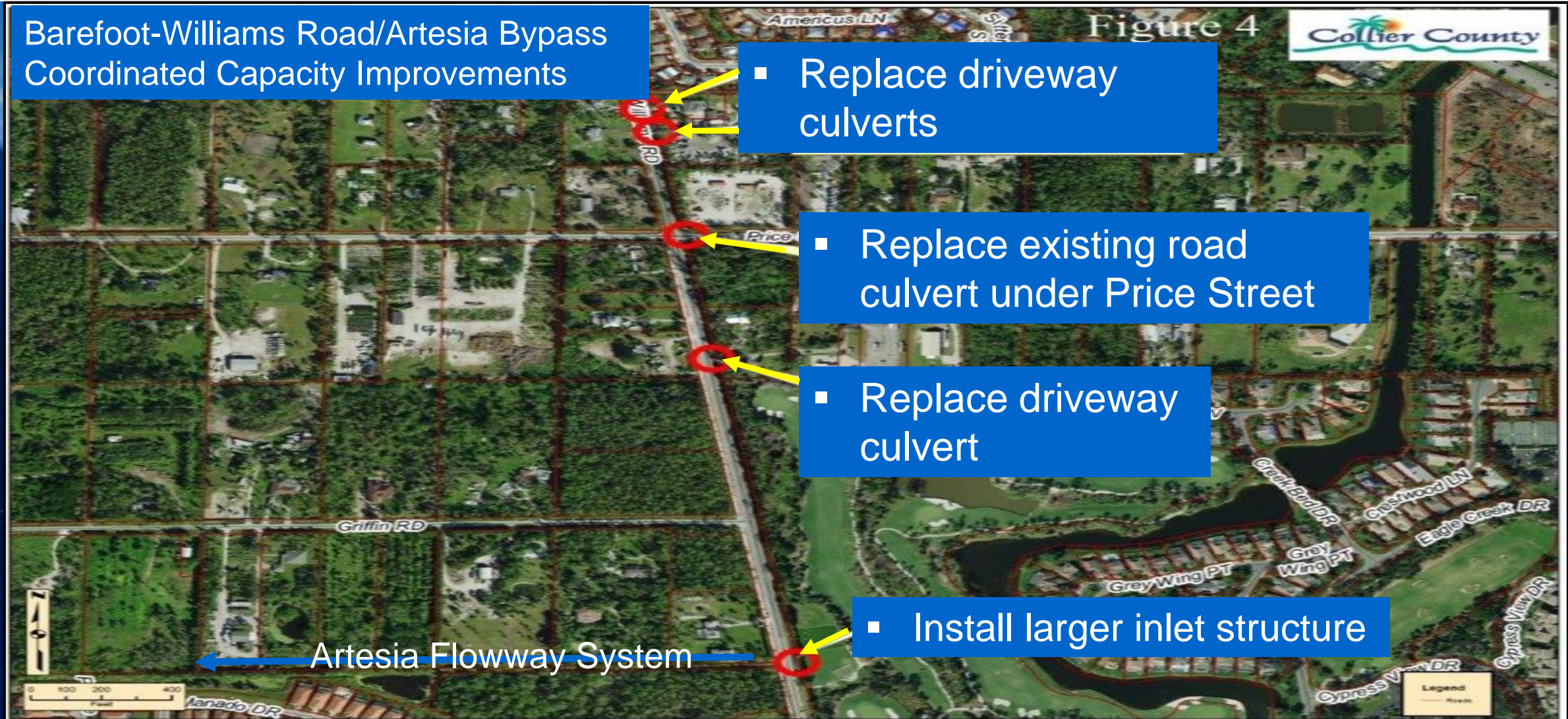
Collier County - Griffin Road Area Stormwater Management Improvements – Phase 1

Purpose: Improve flood control in residential areas along Barefoot-Williams Road area by:

- Increase conveyance along Barefoot-Williams Road swale
- Reduce a public health concern when flooding occurs on properties having wells/septic systems



Griffin Road Area Stormwater Management Improvements – Phase 1

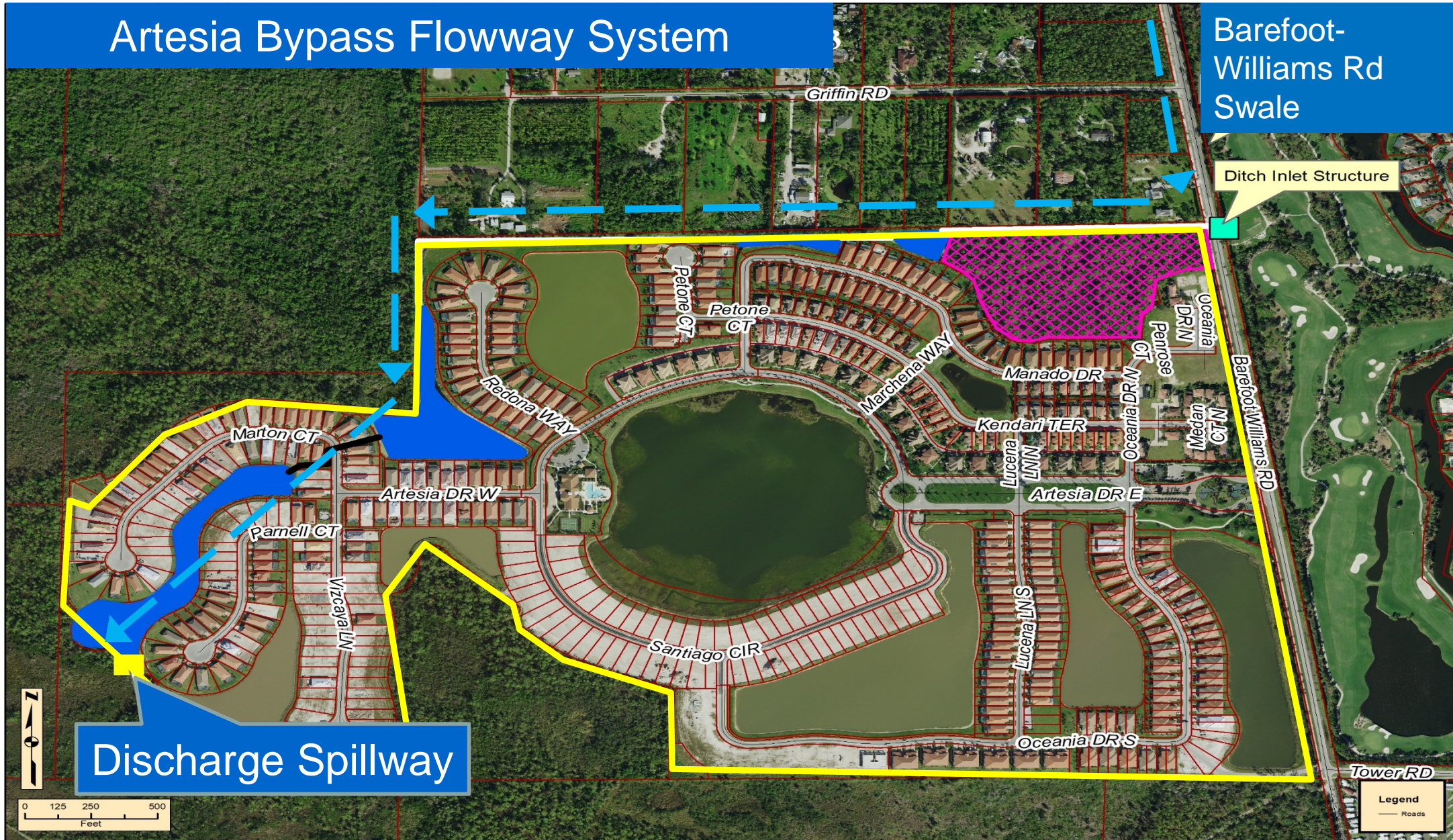


Artesia Bypass Flowway System

Barefoot-Williams Rd Swale

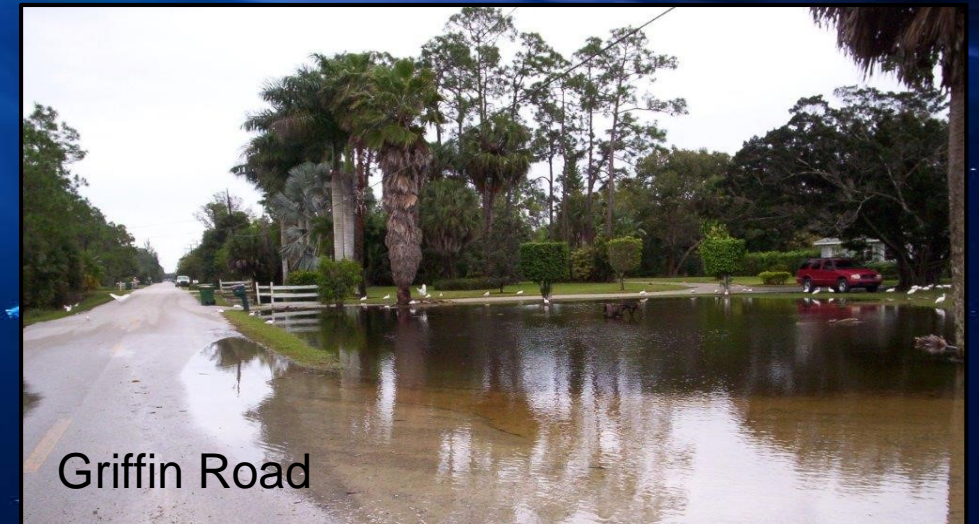
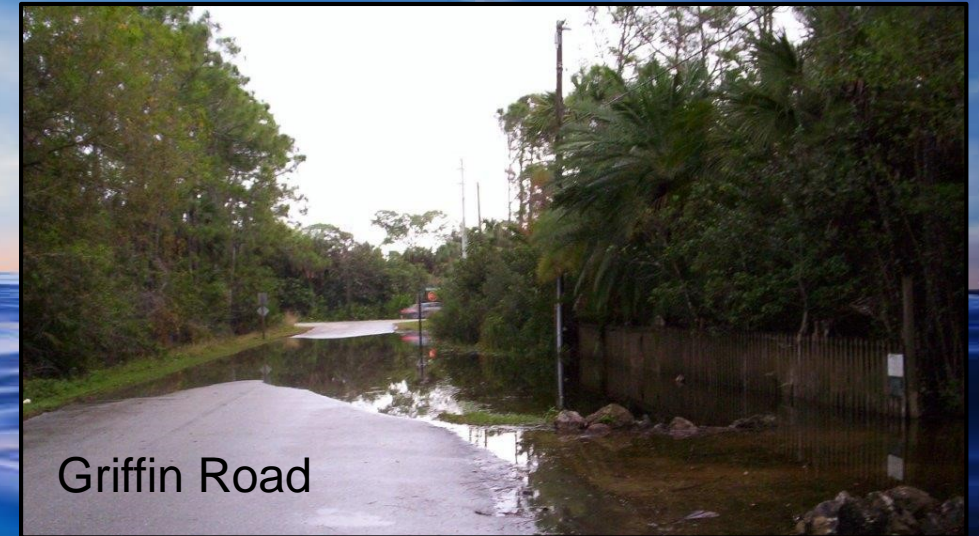
Ditch Inlet Structure

Discharge Spillway



Griffin Road Area Stormwater Management Improvements

- Benefits:
 - Improve flood control in residential areas along Barefoot-Williams Road
 - Reduce public health concern
 - Increase in conveyance will allow the Artesia Flowway Bypass System to perform to its intended potential
- Project Cost: \$450,000
- Eligible Cost: \$450,000
- Requested Funding: \$225,000 – 50%



Proposed Regional Partnership Project Funding

<u>Partner</u>	<u>Project Name</u>	<u>Funding (\$)</u>	<u>Funding (%)</u>
City of Naples	Beach Restoration and Water Quality Improvements – Phase 1	\$ 875,000	10%
Collier County	Freedom Park Stormwater Improvement Project	\$ 240,000	17%
Collier County	Griffin Road Area Stormwater Improvements – Phase 1	\$ 180,000	40%
TOTAL		\$ 1,295,000	

Recommendation

- Consider funding in the amounts below:
 - City of Naples Beach Restoration and Water Quality project in the amount of \$875,000 or 10% of eligible cost, whichever is less;
 - Collier County Freedom Park Stormwater Improvement project in the amount of \$240,000 or 17% of eligible costs, whichever is less;
 - Collier County Griffin Road Area Stormwater Improvement project in the amount of \$180,000 or 40%, whichever is less
- Direct Staff to prepare cost-share agreements and submit to Governing Board for consideration

A scenic sunset over a beach. In the foreground, white-capped waves are breaking. A wooden pier extends from the left side into the ocean, featuring two small white buildings with brown roofs. A seagull is captured in flight above the pier. The sky is a vibrant mix of orange, yellow, and blue, with the sun low on the horizon.

QUESTIONS?