



# Pontilly Neighborhood Stormwater Network

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City of New Orleans

February 14, 2019



**Resilience +  
Sustainability**

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# Agenda

- Welcome

Valerie Bouldin, *Mayor's Office of Neighborhood Engagement*

- Project Overview

Meagan Williams, *Department of Public Works*  
, *CDM Smith*

Jessica Addison, *CDM Smith*

Jessica Watts

- What to Expect During Construction

Natalie Manning, *Office of Resilience & Sustainability/RoadworkNOLA*

- Discussion

Valerie Bouldin, *Office of Neighborhood Engagement*



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# Ground Rules

- Presentation will precede public comment
- Please limit questions to the project area
- Please fill out a comment card to provide a comment/ask a question
- Please raise your hand and your comment card will be collected by a staff member
- There is a two-minute time limit on questions
- A staff member will hold the microphone for you
- You may not yield time to another speaker



# Project Overview



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# Pontilly Neighborhood Stormwater Network Project Map



# Why Pontilly?...

- Flooding occurs during yearly heavy rainstorm events
- Current drainage system and stormwater pipes can only accommodate for a 2-year flood event
- Excavating and replacing the current piping system is expensive and intrusive
- Post Katrina, many lots are still vacant
- Soil subsidence through over pumping and flooding compromises the streets and home foundations



# History

April 2008  
Pontilly Neighborhood  
approached NORA  
with design concepts  
to mitigate flooding

2009  
NORA applied for  
a FEMA Grant for  
Pontilly  
Stormwater  
Mitigation Project

2010  
NORA was  
awarded the \$15  
Million Grant;  
NORA issued RFP;  
Selection  
committee  
selected the  
winning design  
team: CDM Smith

2009  
"Pontchartrain  
Park + Gentilly  
Woods Landscape  
Manual"  
Longue Vue  
House & Gardens  
partnered with  
University Design  
Studios

2010-2011  
"Dwyer Canal  
Revitalization"  
booklet produced  
by  
Pontilly  
Neighborhood  
partnered with  
Long Vue House  
and Gardens

2012  
State/City/NORA  
executed an  
agreement to  
begin the design  
phase of the  
Pontilly  
Stormwater  
Mitigation Project



# Team

- **Owner**
  - New Orleans Redevelopment Authority (NORA)
  - City of New Orleans, Department of Public Works
- **Design Team**
  - CDM Smith
  - Dana Brown & Associates
  - Hatch
- **Construction Contractor**
  - Fleming Construction





# Funding

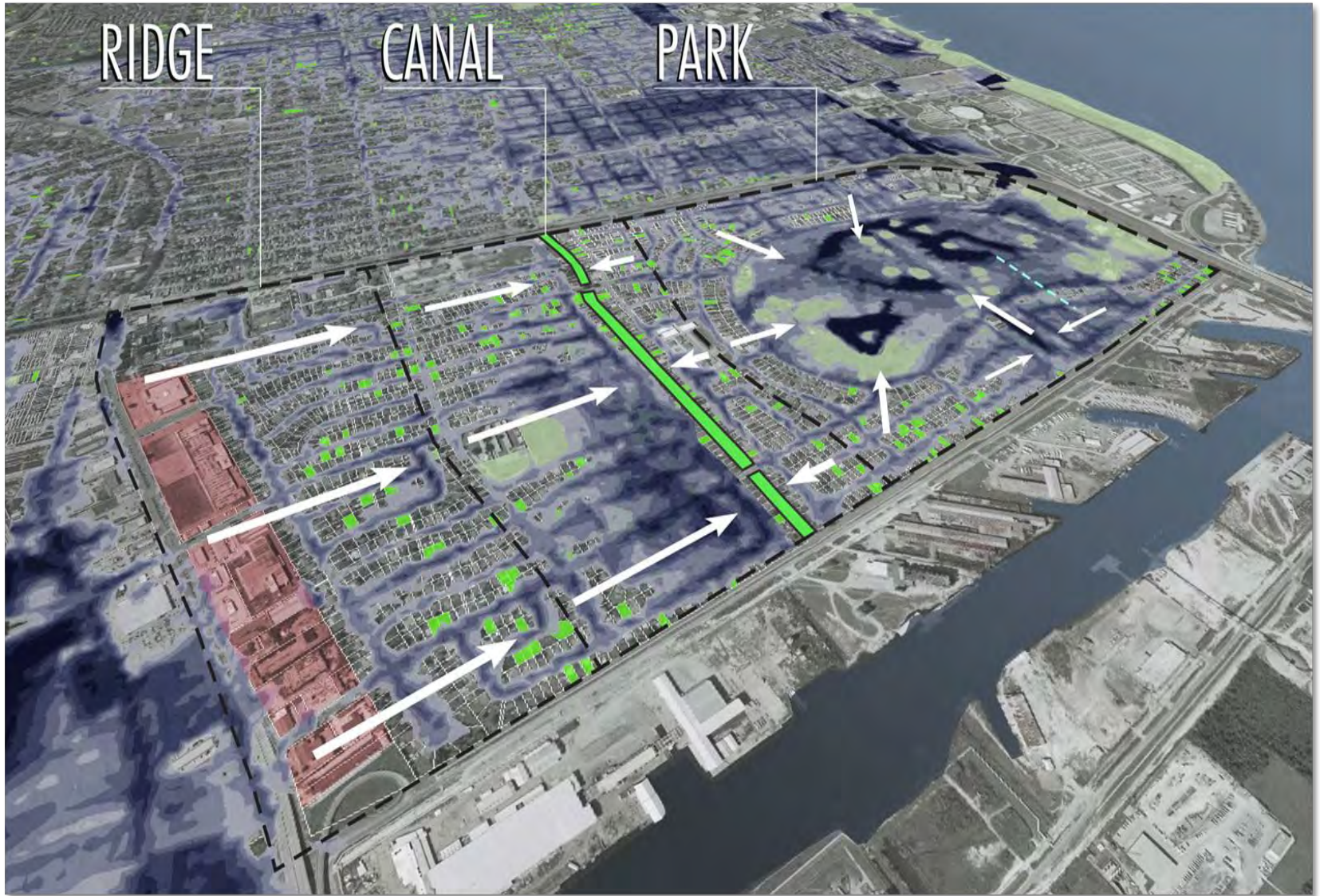
- FEMA HMGP grant
  - Total \$15 Million
  - Divided into 2 phases:
    - Phase 1 - Design and engineering (\$1.5M)
    - Phase 2 - Construction of design (\$13.5M)
  - Limitations
    - Funding covers majority of construction cost
    - Activities related to stormwater infrastructure
    - Does not cover enhancements such as:
      - Pedestrian bridge
      - Benches



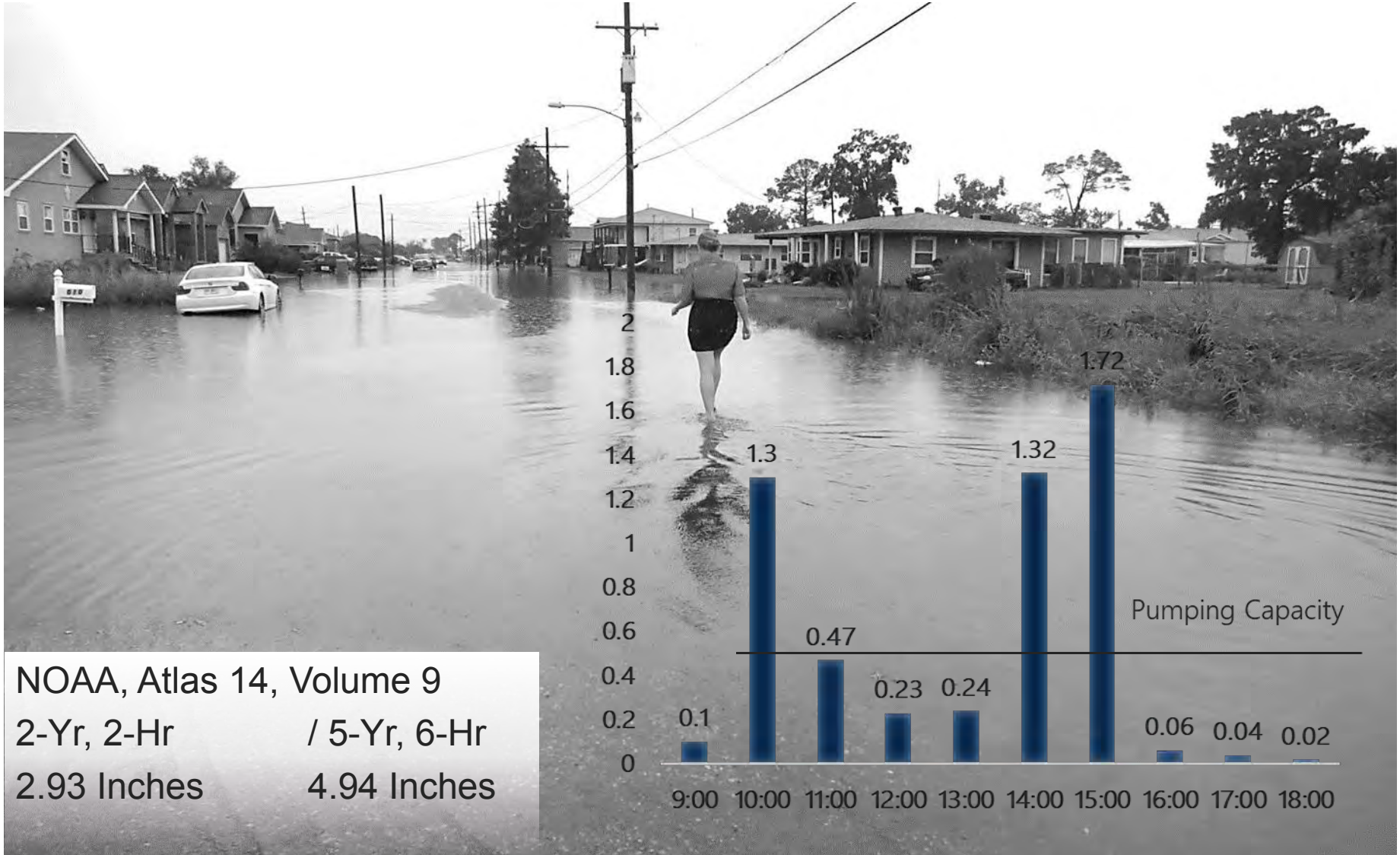
# Existing Conditions / Problems



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# Pontchartrain Park Flooding, July 2012

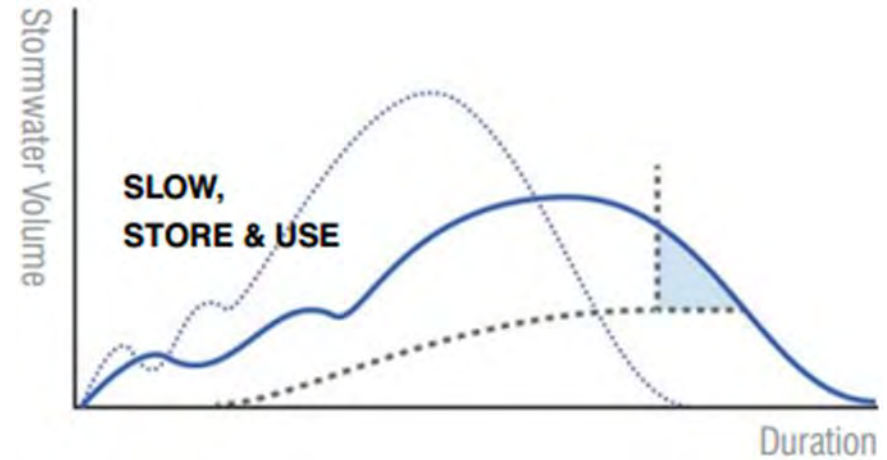
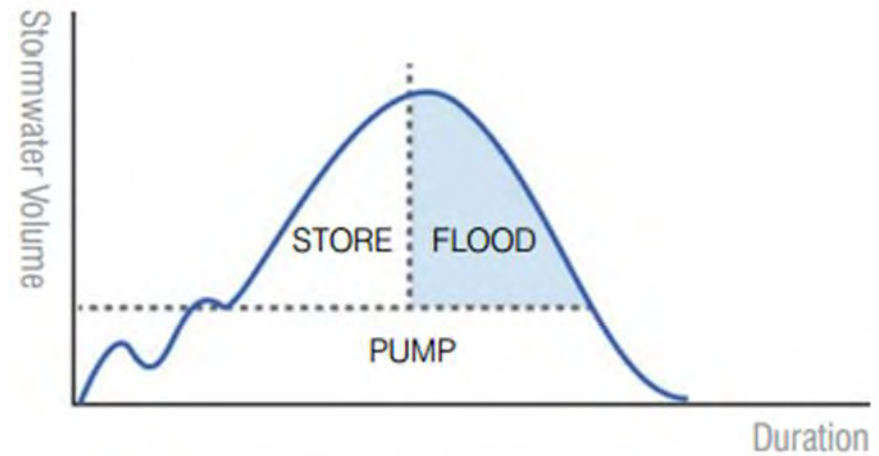
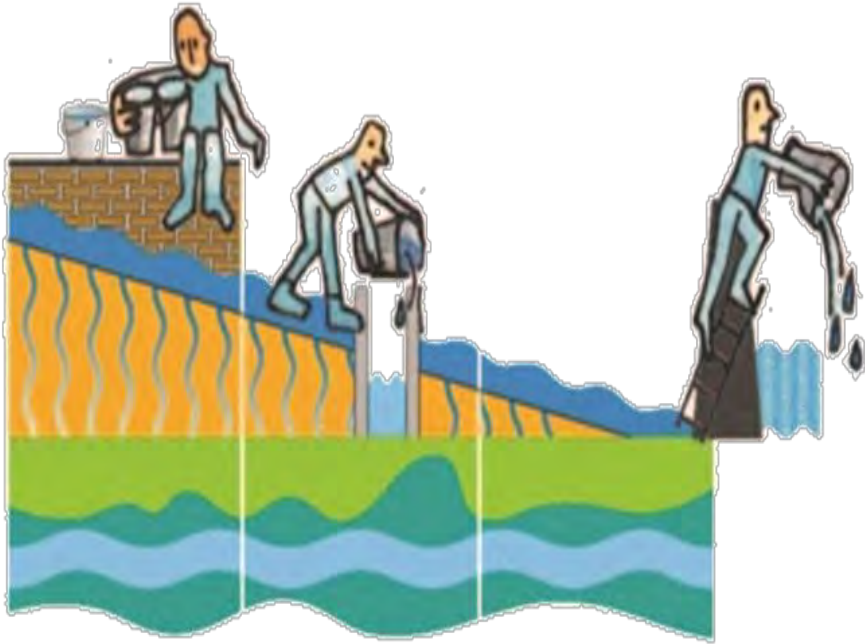


# Proposed Solutions



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# Greater New Orleans Urban Water Plan



**Retain:** Hold the drop of rain as close to where it falls as possible

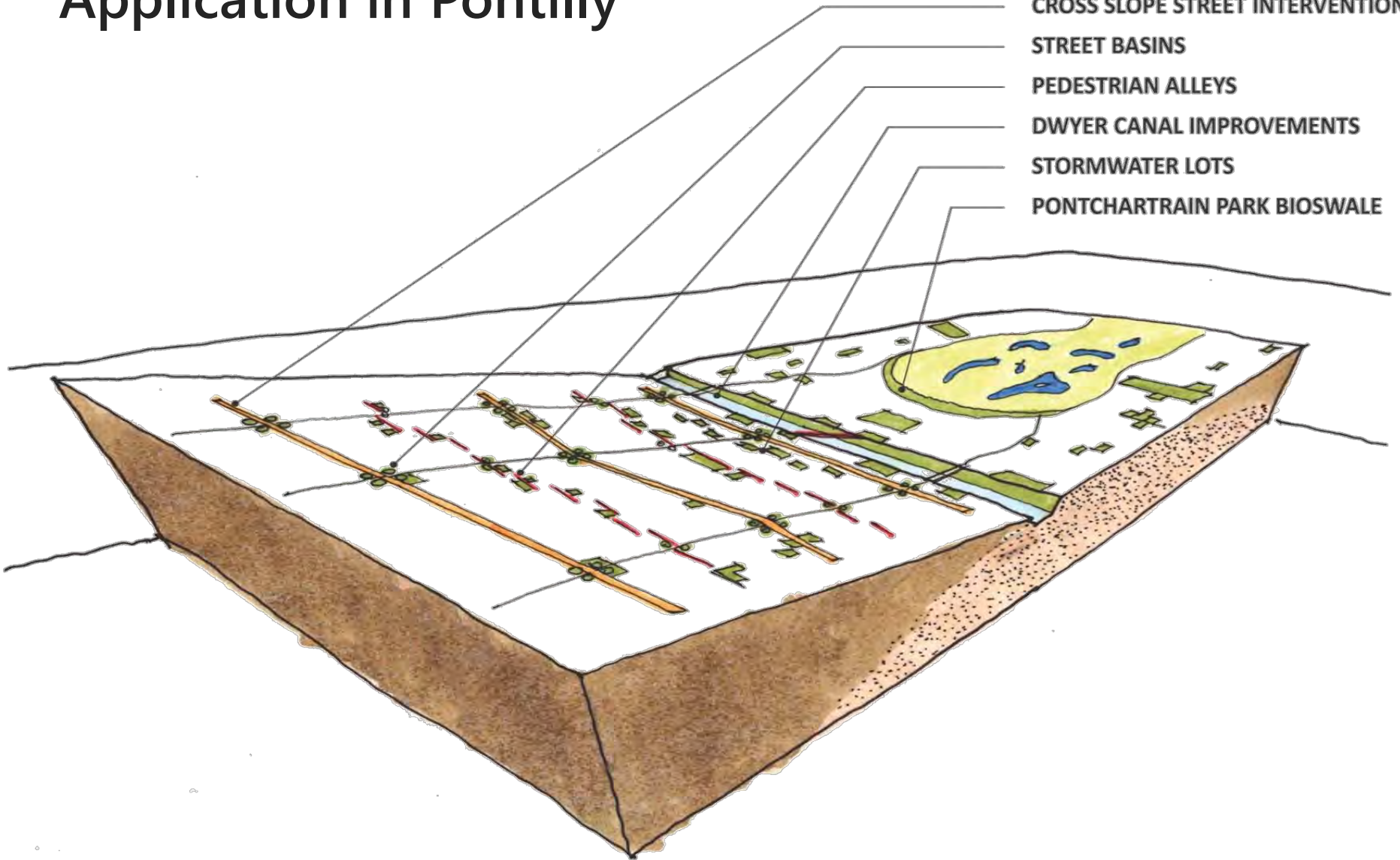
**Detain:** Store runoff temporarily in planned locations

**Drain:** Increase the ability of infrastructure to flow



# Application in Pontilly

- CROSS SLOPE STREET INTERVENTIONS
- STREET BASINS
- PEDESTRIAN ALLEYS
- DWYER CANAL IMPROVEMENTS
- STORMWATER LOTS
- PONTCHARTRAIN PARK BIOSWALE



# Proposed Solution | Existing Condition

## 1-Year Storm





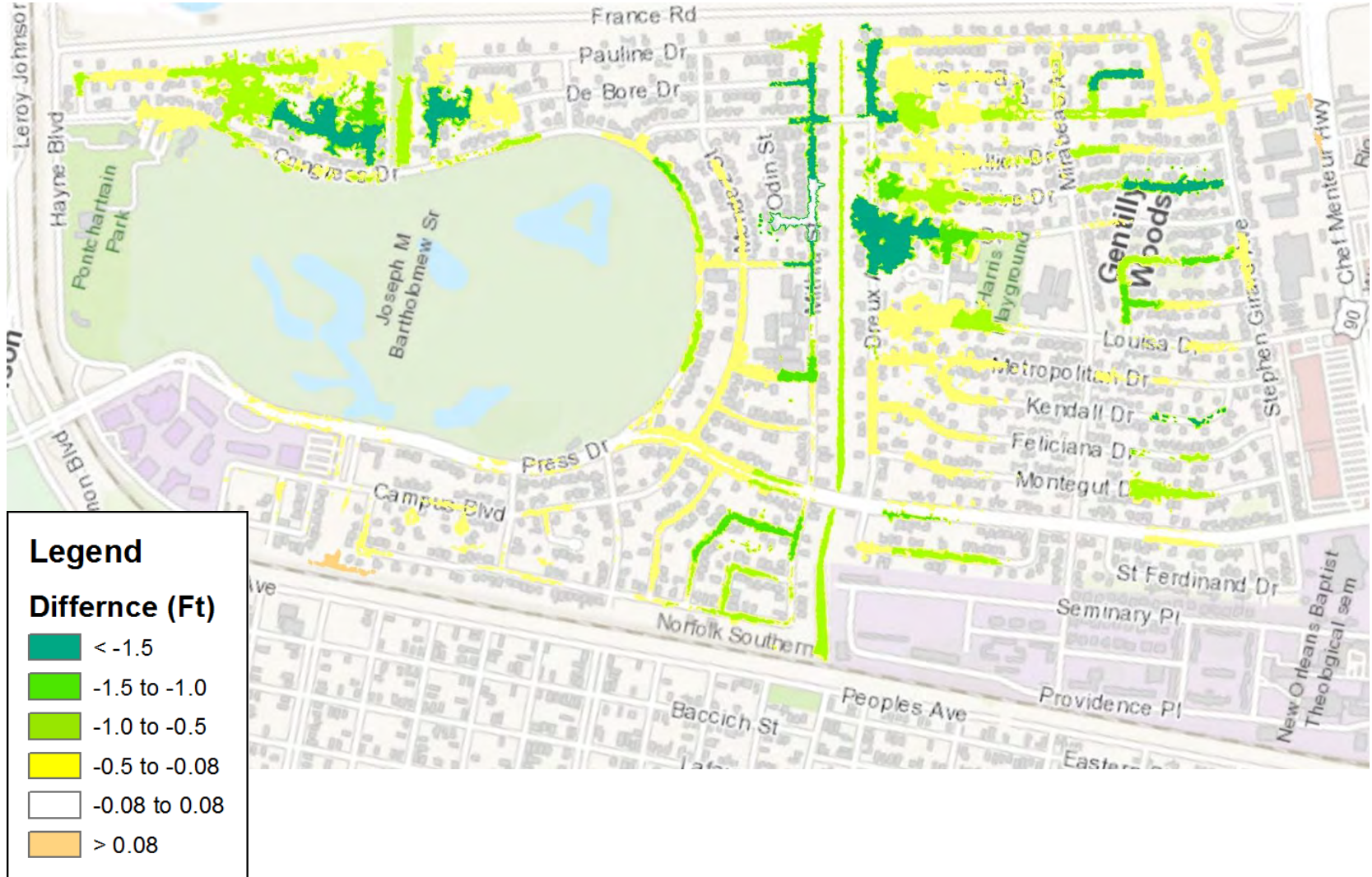
# Proposed Solution | Improved Condition

## 1-Year Storm



# Proposed Solution | Improvements

## 1-Year Storm



# Proposed Solution | Improvements

## 2-Year Storm

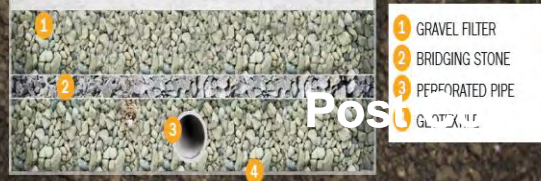


# Green Infrastructure Project Features



# Pervious Pavement



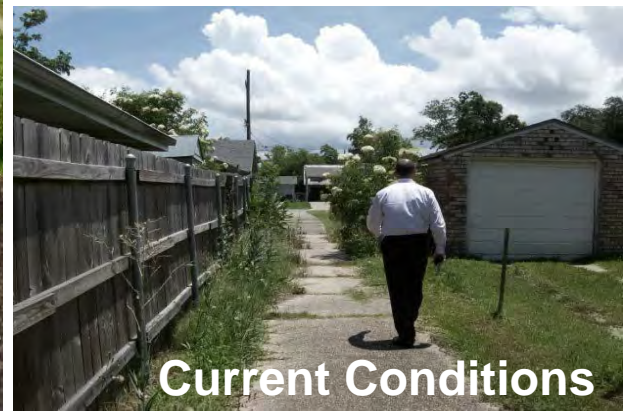


5,875 LF of  
Pervious  
Pavement w/  
Total Storage

= 37,760 cf

= 282,465 gal

= 3,530 bathtubs



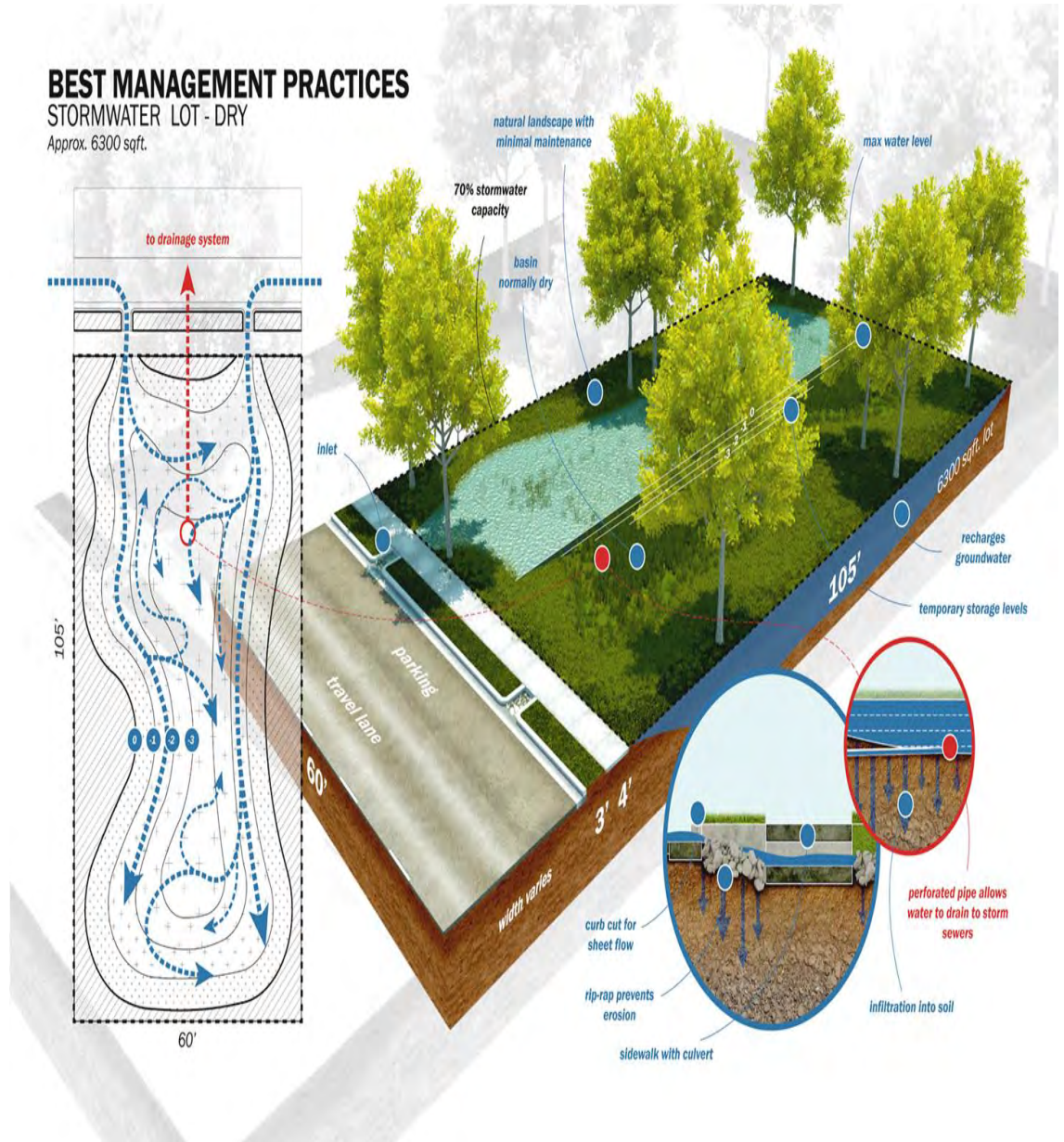
# Stormwater Lots & Parks



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36 Stormwater  
 Lots w/ Total  
 Storage  
 = 412,900 cf  
 = 3,088,700 gal  
 = 38,610 bathtubs

**BEST MANAGEMENT PRACTICES**  
 STORMWATER LOT - DRY  
 Approx. 6300 sqft.







After - Wet



After - Dry



Before





Post Construction Vision

Total Storage  
= 444,500 cf = 3,325,090 gal  
= 41,560 bathtubs



Current Conditions



# Street Basins



24 Street Basins w/  
Total Storage  
= 68,420 cf  
= 511,820 gal  
= 6,400 bathtubs

## BEST MANAGEMENT PRACTICES

### MID-BLOCK STREET BASIN

Approx. 450 sqft.





After

Urban Bioswale

Street Basin

Permeable pavers



Current

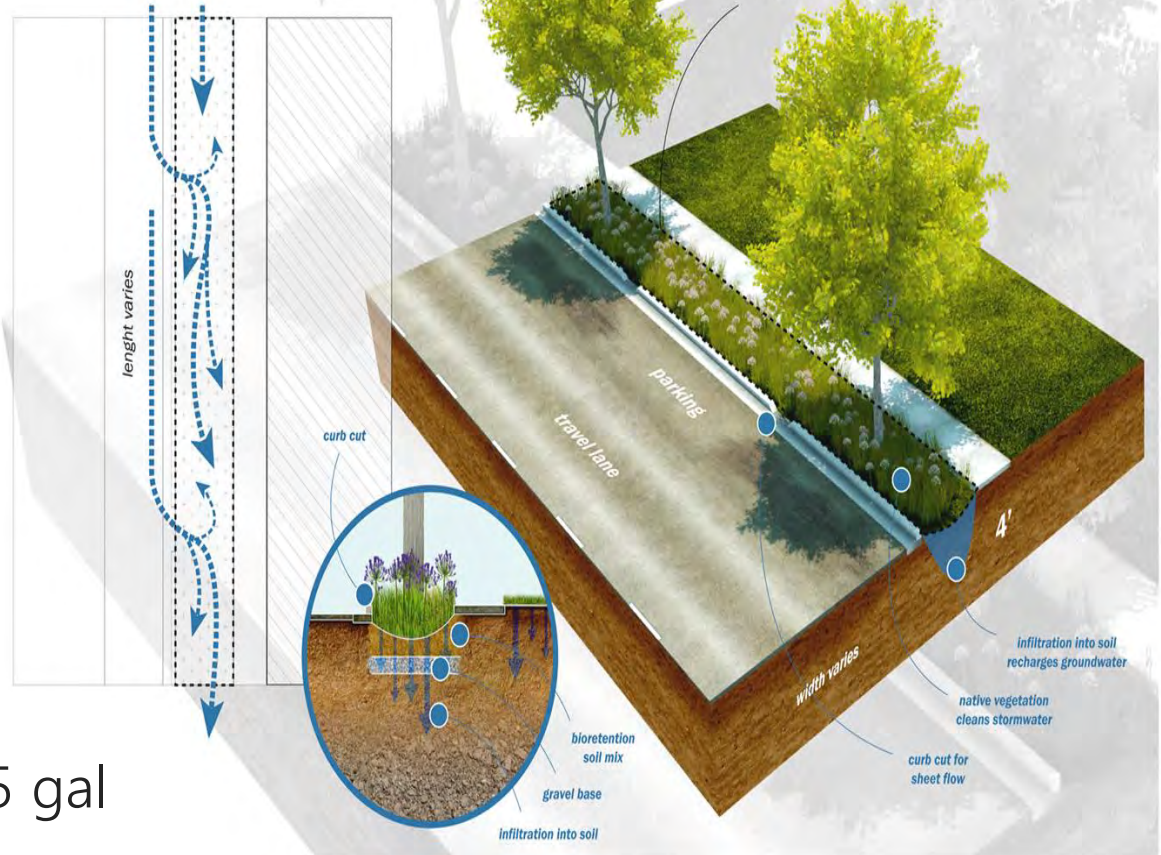


# Urban Bioswales





## BEST MANAGEMENT PRACTICES URBAN BIOSWALE



Total Storage

= 65,190 cf = 487,655 gal

= 6,095 bathtubs





Post Construction Vision



Current Conditions

Total Storage

= 126,400 cf = 945,540 gal

= 11,820 bathtubs





# Dwyer Canal





**Post Construction Vision**

Additional Storage

= 35,000 cf = 261,800 gal

= 3,270 bathtubs



**Current Conditions**



# What to Expect During Construction

## Temporary construction impacts

- Additional construction equipment
- Limited parking availability
- Sounds
- Dust



## Efforts to minimize construction impacts

- Construction signage placed around the sites.
- Any temporary closures will be communicated in advance.
- Any changes to garbage and US Postal services will be communicated in advance.
- Residents will be informed throughout construction.

*Regular work hours are Monday-Friday 7:00 a.m. to 5:30 p.m.  
Permission for occasional weekend work may be granted, if required.*

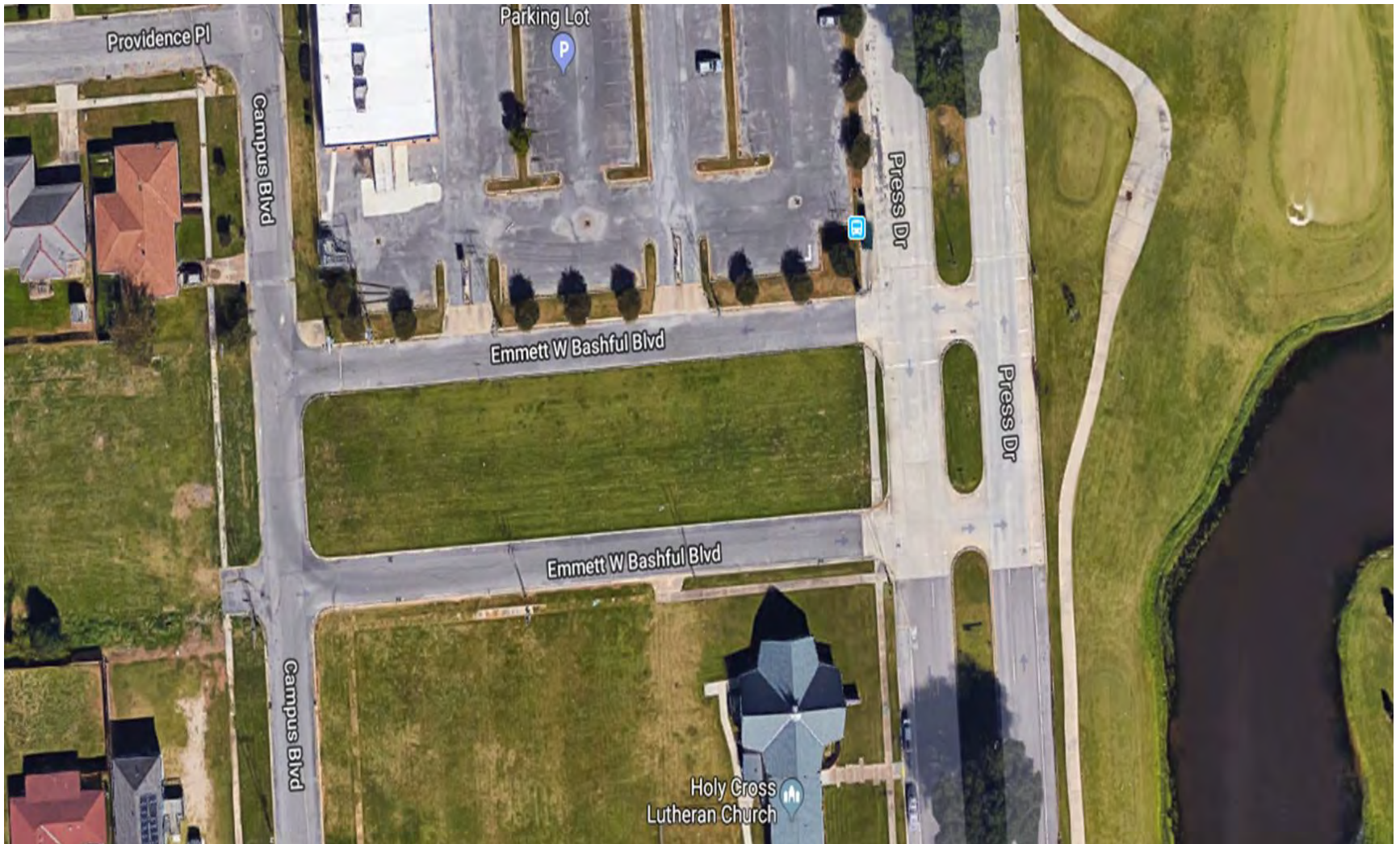


# Phases & Details

- Streets will be closed two blocks at a time and returned to service before moving to the next two blocks
- On streets that will not be fully reconstructed, only one lane will be closed at a time
- In the event of full block closures, 48 hours notice will be given to residents

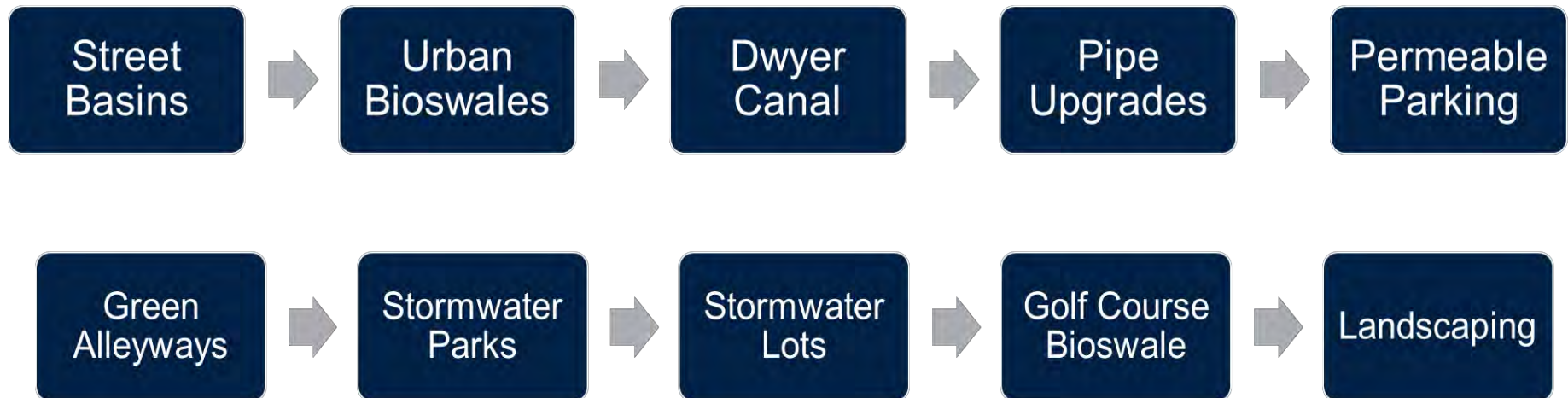


# Proposed Staging Area



# Schedule

- March 2019 to September 2020
- In general, crews will perform work Monday through Thursday 7:00am to 5:30pm, and Fridays as needed. Schedule may be subject to change depending on weather.



# Keeping You Informed

## Roadwork.nola.gov

**Enter your address here**

**Tell us what you think of the site or download the data**

**Choose to view pavement condition, planned work or roads under construction now**

**Get block-by-block information about the work schedule, type of repairs and what to expect during construction**

**ROADWORK CITY OF NEW ORLEANS**  
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**CHECK OUT THE NEW FEATURES!**

- ✓ mobile-friendly
- ✓ clean design
- ✓ improved functionality
- ✓ enhanced content

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**6800 block of Vicksburg St**  
From Chapelle St to Mouton St in Lakeview

**Pavement Condition**  
Failure:

**Work Status**

Project	Street Repair Work	Water, Sewer, and/or Drainage Work
6803 - Lakeview North Group F IFRC	Project ID: RR088 Repair Type: Full Reconstruction Status: Planned	Work Type: Drainage Line, Sewer Line, and Water Line Replacement Status: Planned

PLEASE NOTE: The content provided on roadwork.nola.gov is subject to change pending unforeseen site conditions, weather delays, constructability issues, etc.



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We have joined NextDoor!



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# Contact Information

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# Questions / Discussion



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