EAST BATON ROUGE

STORMWATER MASTER PLAN

UNDERSTAND. PLAN. IMPLEMENT.

Project Status Presentation
Council Meeting – June 23, 2021

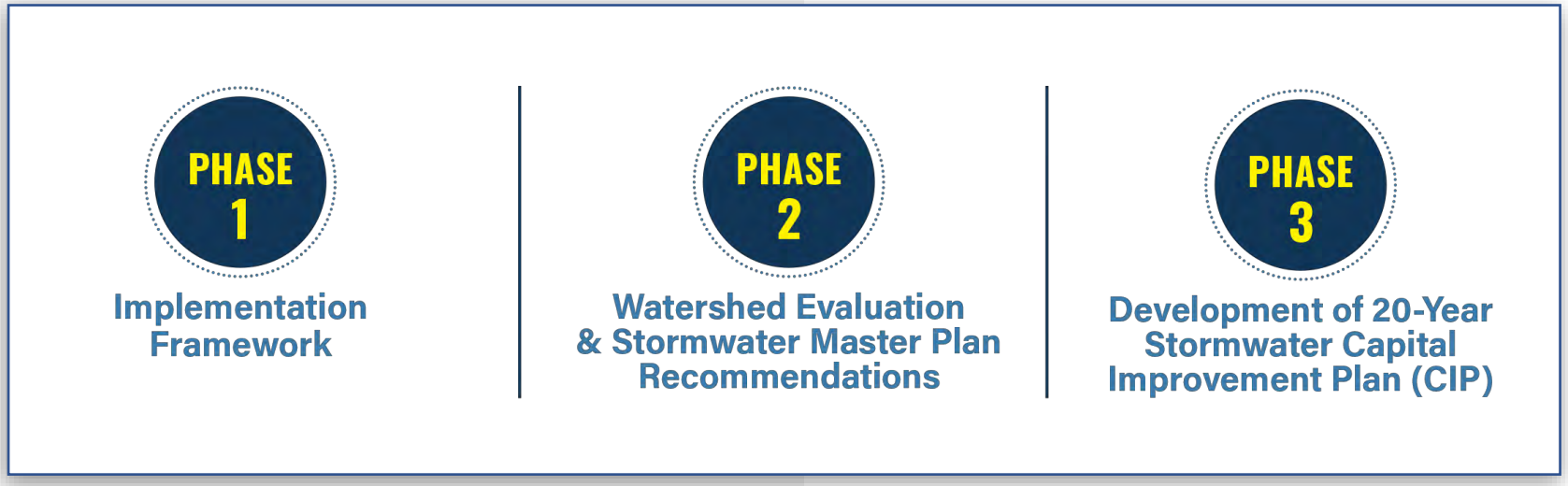
EBR Stormwater Master Plan

- The East Baton Rouge Stormwater Master Plan will be a guiding document for the implementation of overall flood risk reduction projects and policies for the city-parish.
- The plan will implement goals and objectives in alignment with the FUTUREBR Comprehensive Plan.
- Data driven and include climate change

EBR Stormwater Master Plan

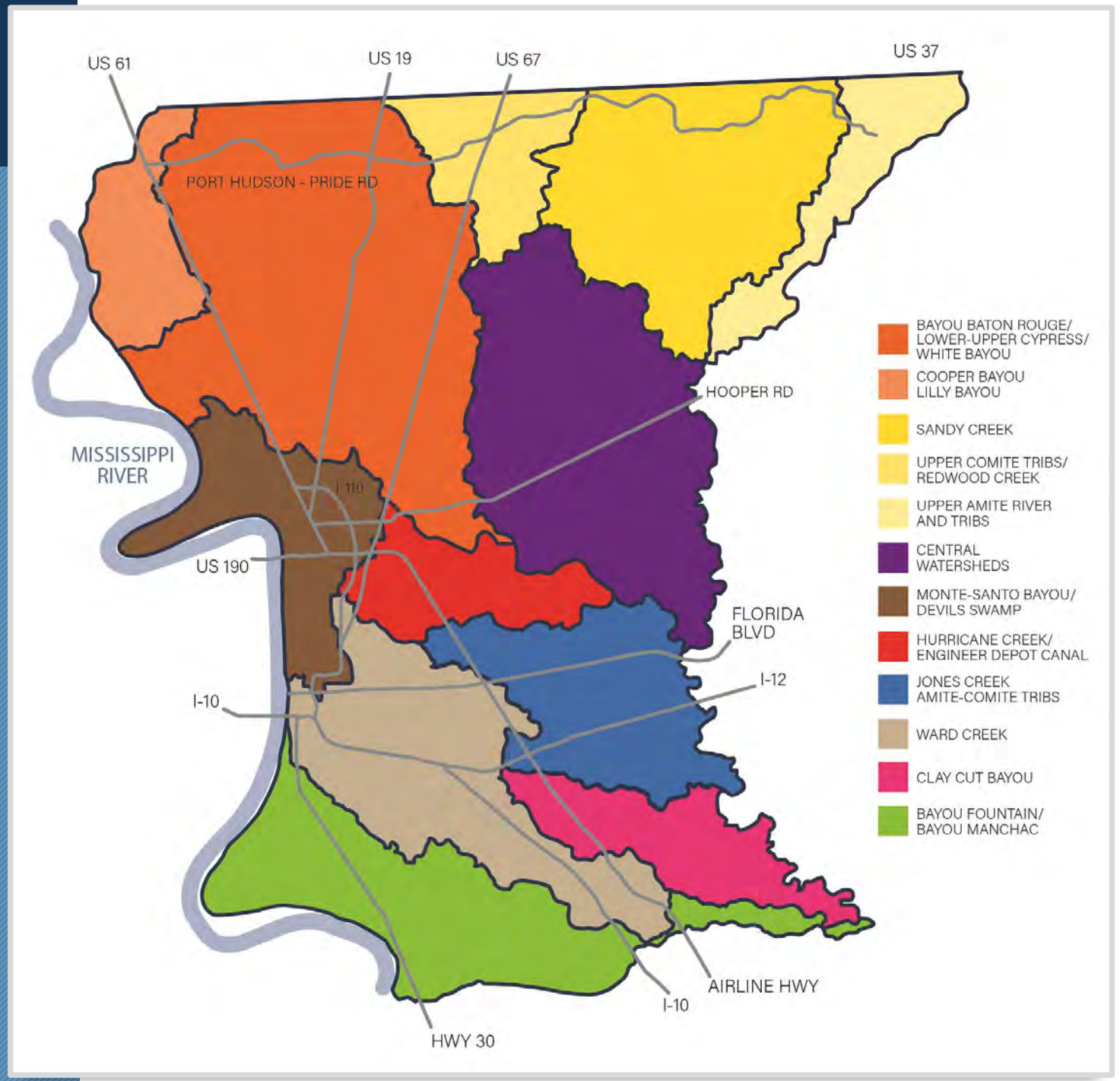
- **The planning process for the Stormwater Master Plan is broken up into 3 phases.**

- **We are currently in phase 2.**
  - Phase 2 evaluates each of the Parish's 11 major hydrological watersheds by collecting and organizing data to understand current stormwater systems. The process will help identify current and future flood risk and lead to the development of flood risk mitigation projects and policies.



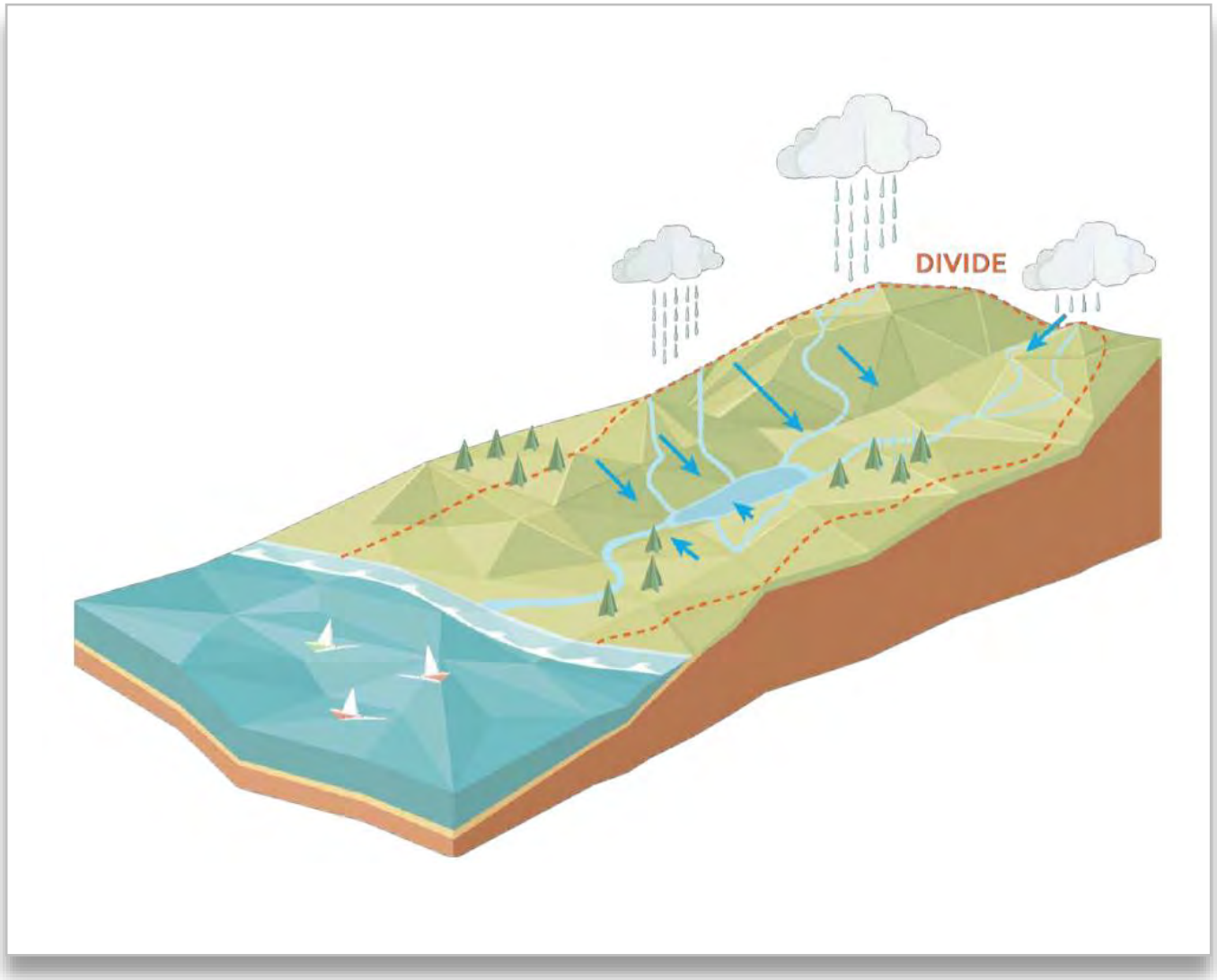
Stormwater Master Plan Watersheds

- BAYOU BATON ROUGE/ LOWER-UPPER CYPRESS/ WHITE BAYOU
- COOPER BAYOU LILLY BAYOU
- SANDY CREEK
- UPPER COMITE TRIBS/ REDWOOD CREEK
- UPPER AMITE RIVER AND TRIBS
- CENTRAL WATERSHEDS
- MONTE-SANTO BAYOU/ DEVILS SWAMP
- HURRICANE CREEK/ ENGINEER DEPOT CANAL
- JONES CREEK AMITE-COMITE TRIBS
- WARD CREEK
- CLAY CUT BAYOU
- BAYOU FOUNTAIN/ BAYOU MANCHAC



What is a Watershed?

- A watershed is an area of land that drains its rainfall and streams to a common outlet.
- The topography of land, including man-made structures, determines the divides or boundaries of the watershed, and where and how water flows.



City-Parish Response to Stormwater Flooding

Stormwater Master Plan Process

1

Identify & Understand Current & Future Flood Risk

- Data Collection - Survey
- Computerized Models
  - Evaluate Existing Conditions
  - Identify Flood Sources

2

Develop Measures to Mitigate Risks

- Identify Project/Policy Concepts
- Initial Project List
- Projects Evaluation
- Benefit Costs Analysis
- Final Project List

3

Create a Plan to Implement Flood Risk Reduction Measures

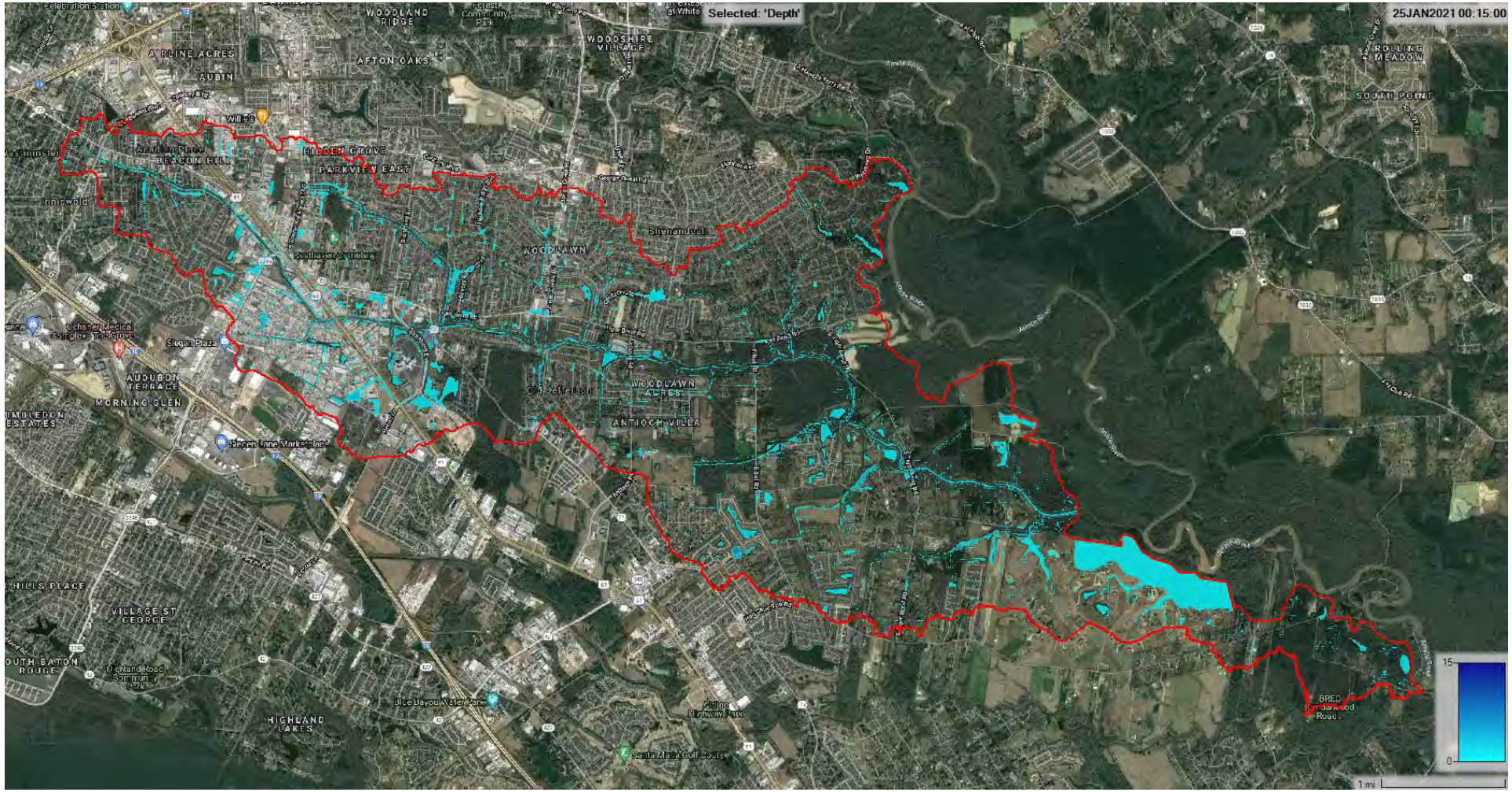
- Evaluate Funding Need/Options
- Prioritize Projects
- Develop 20-yr Capital Improvement Plan

Understanding Flood Risk

Data Collection

- 60,000 drainage structures identified including manholes, inlets, culverts, outfalls and pipes
- Determined type, size, location & examined conditions of the structure
- GIS database established for the city-parish
- Over 300 miles of drainage channels surveyed

Understanding Flood Risk - Modeling

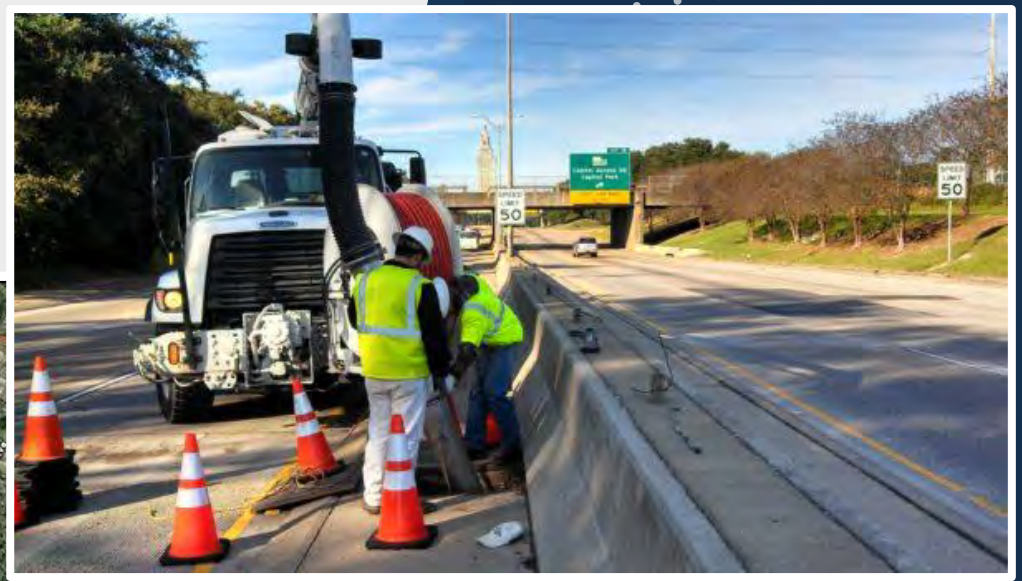


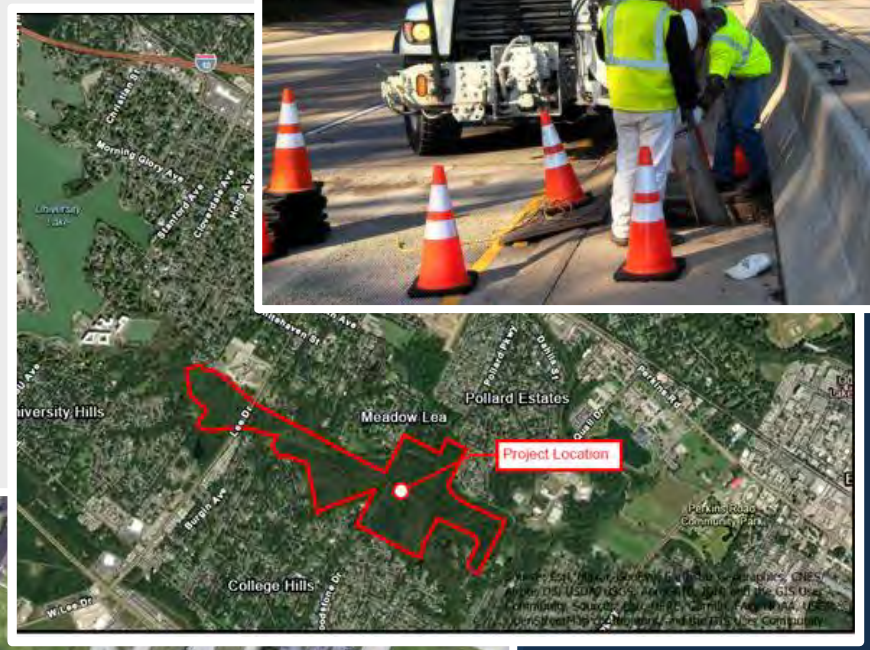
- Identify extent and depth of water
- Develop flood inundation maps
- Determine damages and costs
- Evaluate proposed projects

Develop Plan to Mitigate Flood Risk

Mitigation Techniques

- Maintenance of Existing System
- Flood Risk Reduction Infrastructure
- Conservation of wetlands and floodplains
- Low Impact Development Requirements

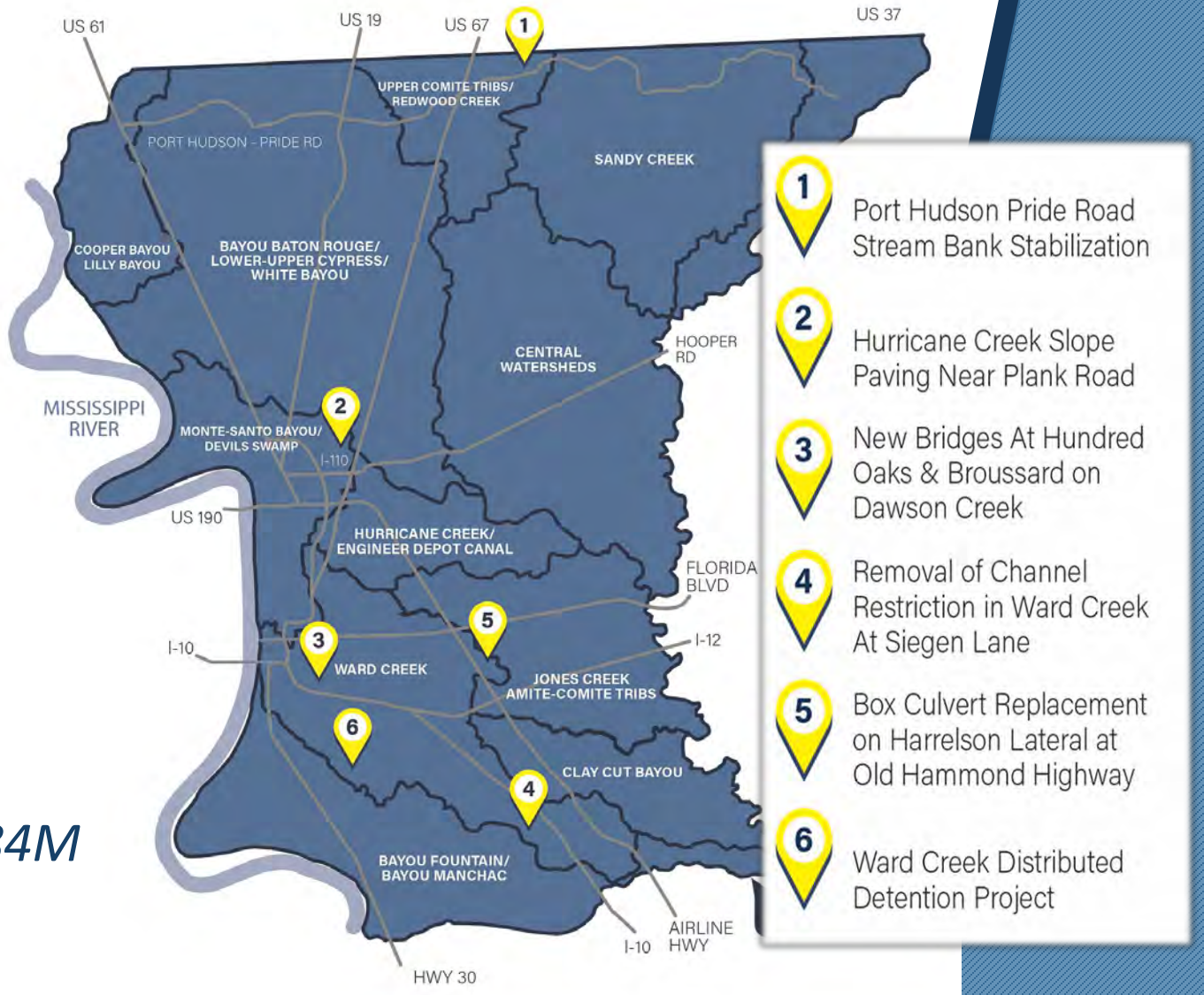




Develop Plan to Mitigate Flood Risk – Ongoing Projects

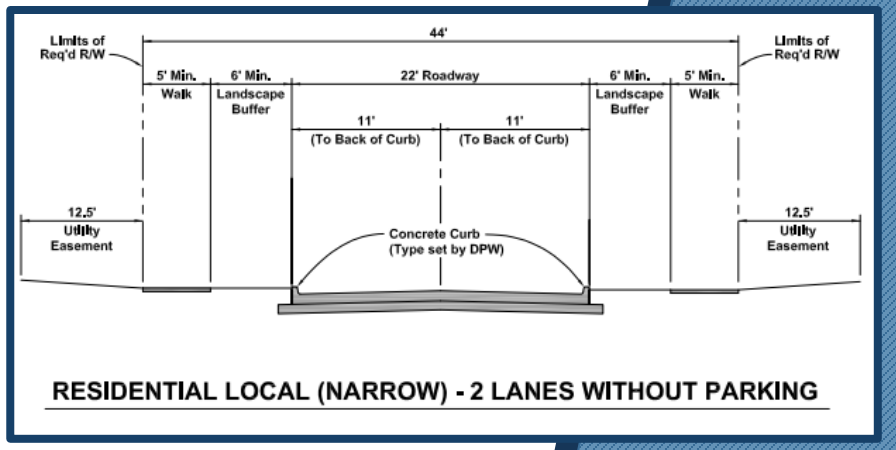
- Hazard Mitigation Grant Projects (HMGP) – 6 Approved – In process
- 2 LWI Projects Approved – Ward Creek and Bayou Duplantier Flood Plain Preservation
- $20 M Applied to backlog of maintenance:
  - Channel Clearing
  - Structures cleaning
  - Roadside ditch cleaning and cave-ins

Above 100% Federally Funded – Over $84M

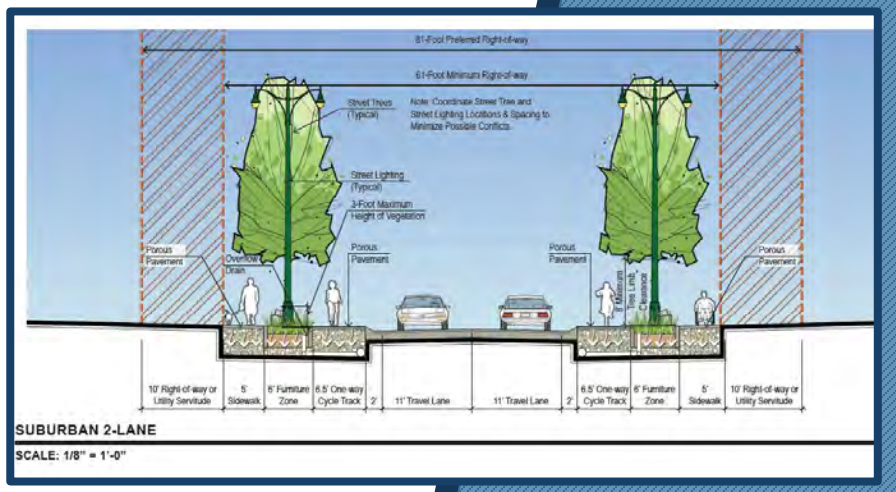


Develop Plan to Mitigate Flood Risk – Policies

- Approved Interim Recommendations:
  - Drainage Impact Studies to include conveyance check
  - Clarifications to UDC Chapter 15
  - Integrate Green Infrastructure from MOVEBR
- Future Policy considerations (Examples):
  - Increase Freeboard above BFE
  - Conservation districts/buffers along stream corridors
  - Fill Impacts
  - Drainage Design



EXISTING



PROPOSED

Schedule/Status

Task Description	Schedule	Percent Complete
Project Management & Coordination	Jan 2020 - Jul 2022	65%
Public Outreach	Apr 2020 - Jul 2022	40%
Design Criteria Methodology	Jan 2020 - Dec 2020	100%
Understanding Flood Risk - Data Collection	Jan 2020 - Jan 2021	100%
Understanding Flood Risk - Modeling Assessment	Jan 2020 – Aug 2021	70%
Measures to Mitigate Risk	Dec 2020 – Dec 2021	20%
Ordinance and Codes	June 2020 – May 2022	35%
Stormwater Master Plan (SMP) Report	Nov 2020 – May 2022	10%
20-Year Capital Improvement Plan	June 2021 – July 2022	5%
Total Fee		**$15,630,000**

Contact Us

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