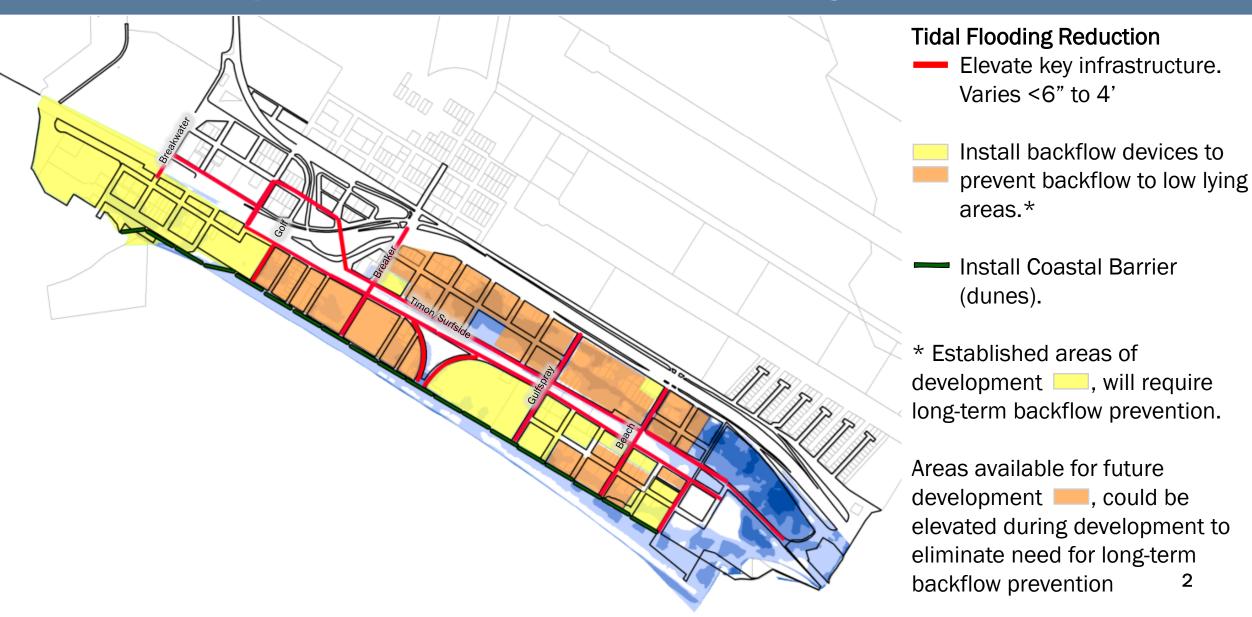
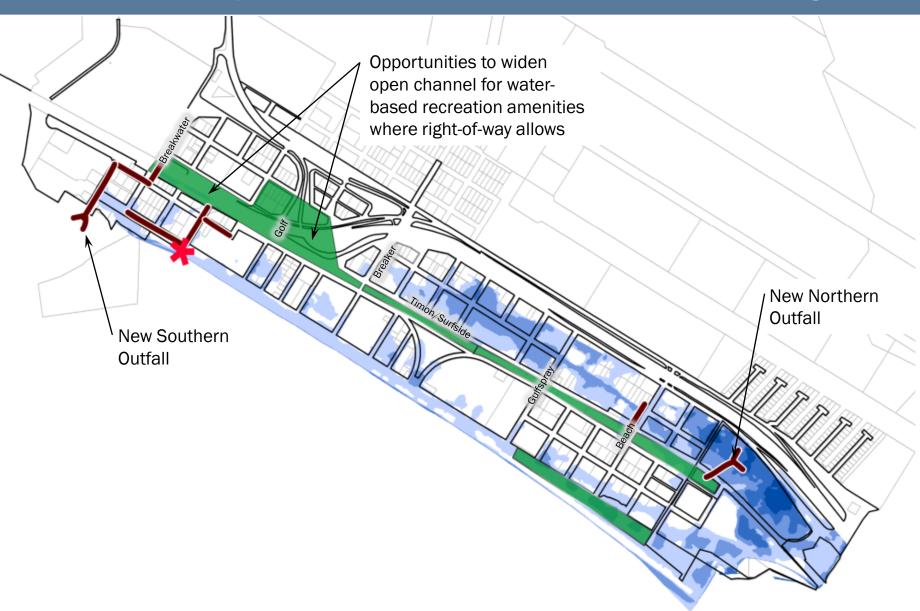


#### Drainage Improvement Project Plan



#### Drainage Improvement Project Plan



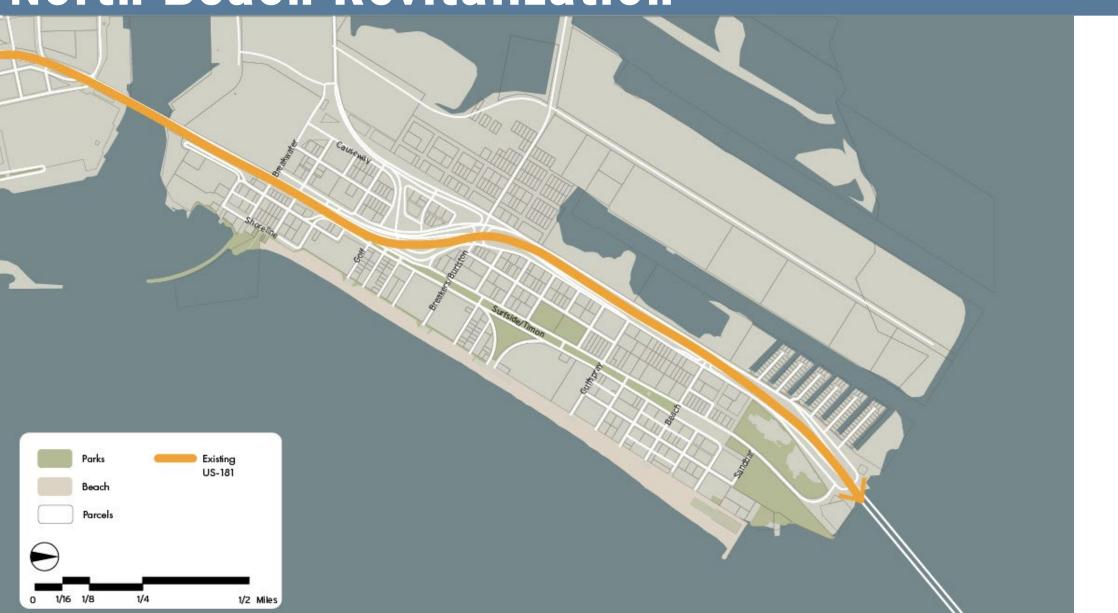
#### Rainfall Flooding Reduction

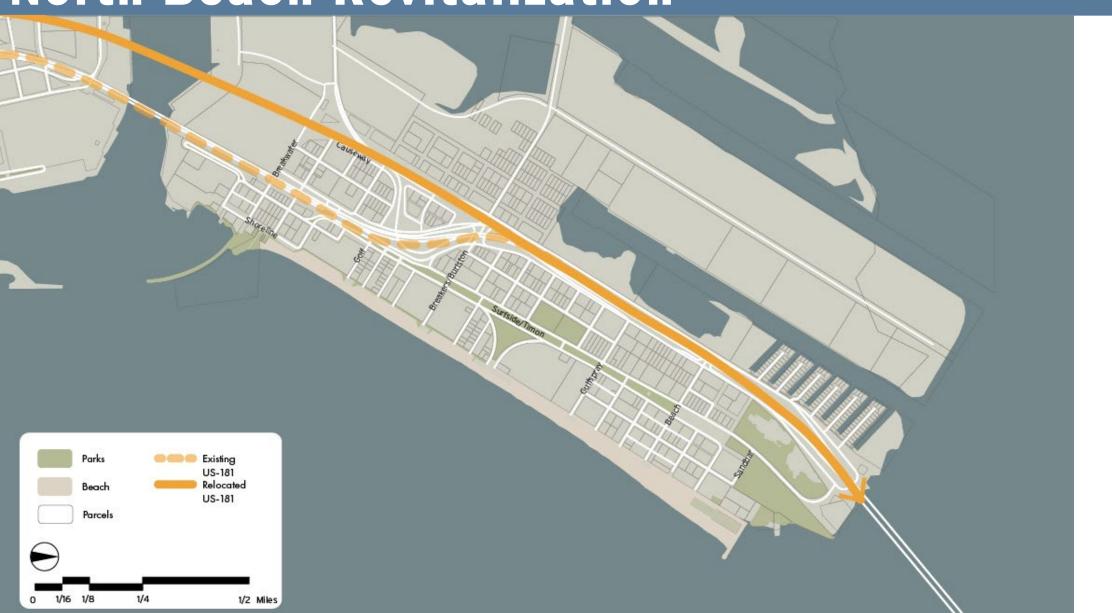
- Install new open channel conveyance system, integrated within linear open space amenity.\*
- Install new piped conveyance system, were
- Install pump stations to provide drainage of low-lying infrastructure during high tides.

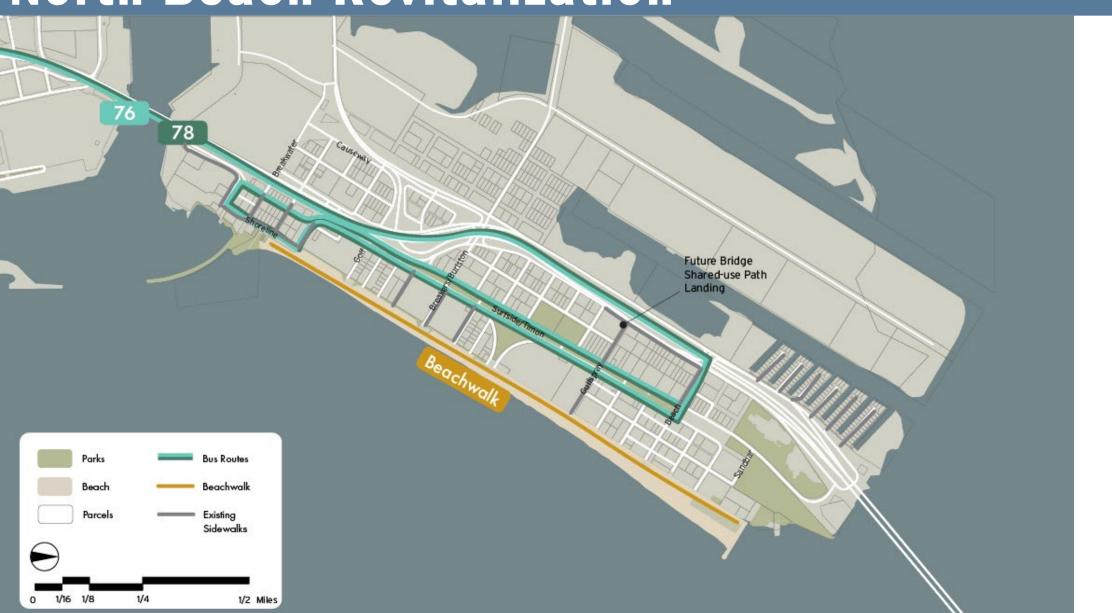
#### Drainage Improvement Project Plan



- Comprehensive improvement plan will be implemented in phases
- Phasing will be determined based on timing of funding availability and bridge progress

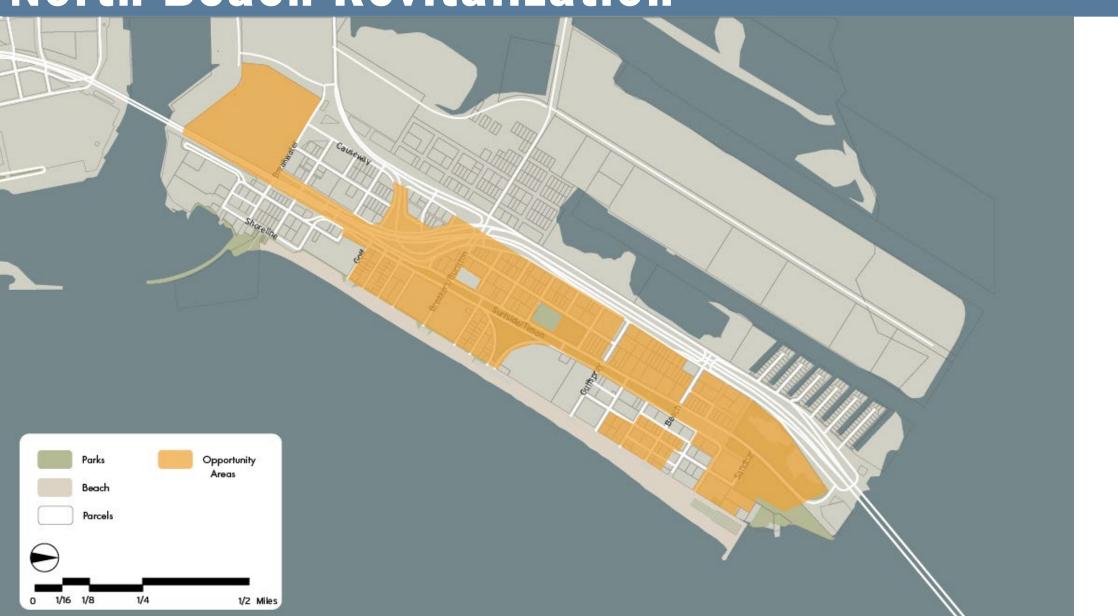


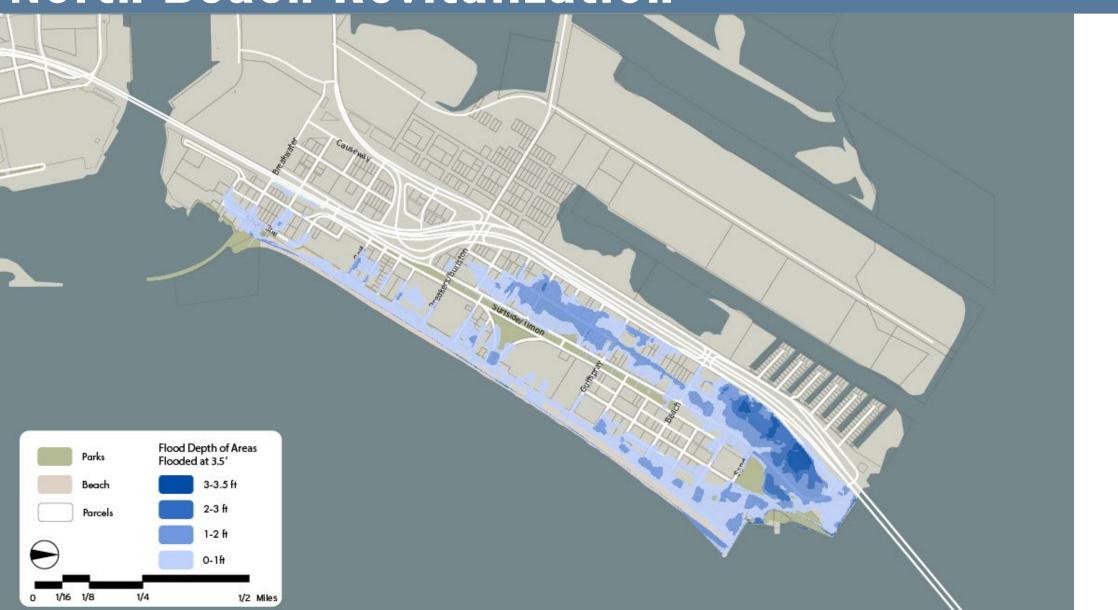


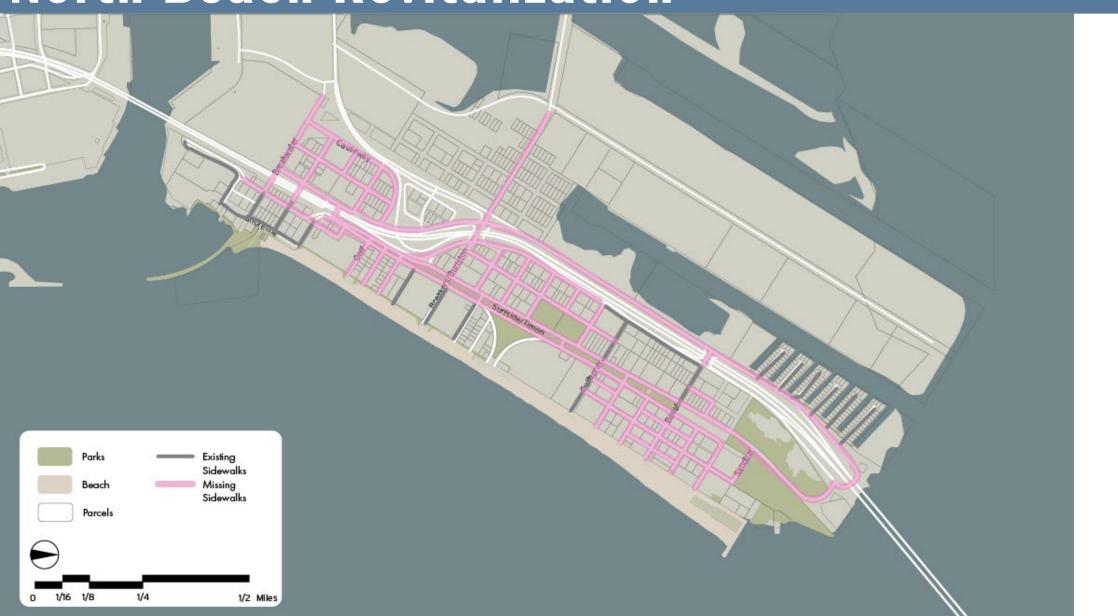




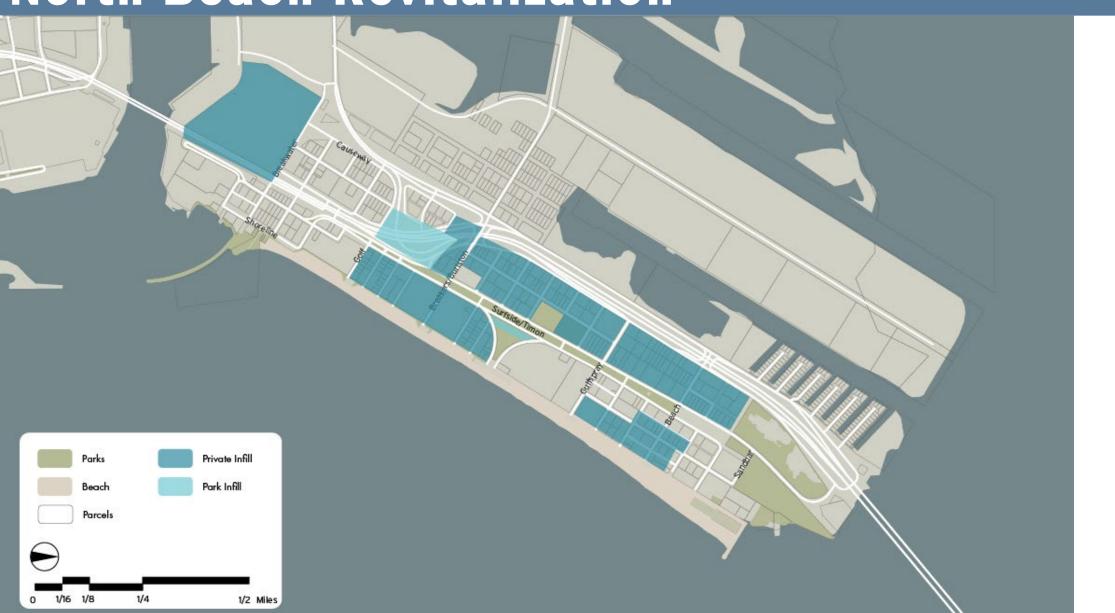












#### What We've Heard So Far

#### Design Guidelines for Build Out of Flooding Reduction Improvements

- Increase pedestrian connectivity to the beach, closing gaps in missing sidewalks
- Coordinate with overall North Beach multi-modal connectivity buildout
- Provide interest and attraction at varying tidal levels
- Accommodate water-based recreation, e.g. kayaking and paddle boats
- Coordinate to ensure design that does not preclude future expansion of the open channel
- Maintain water quality

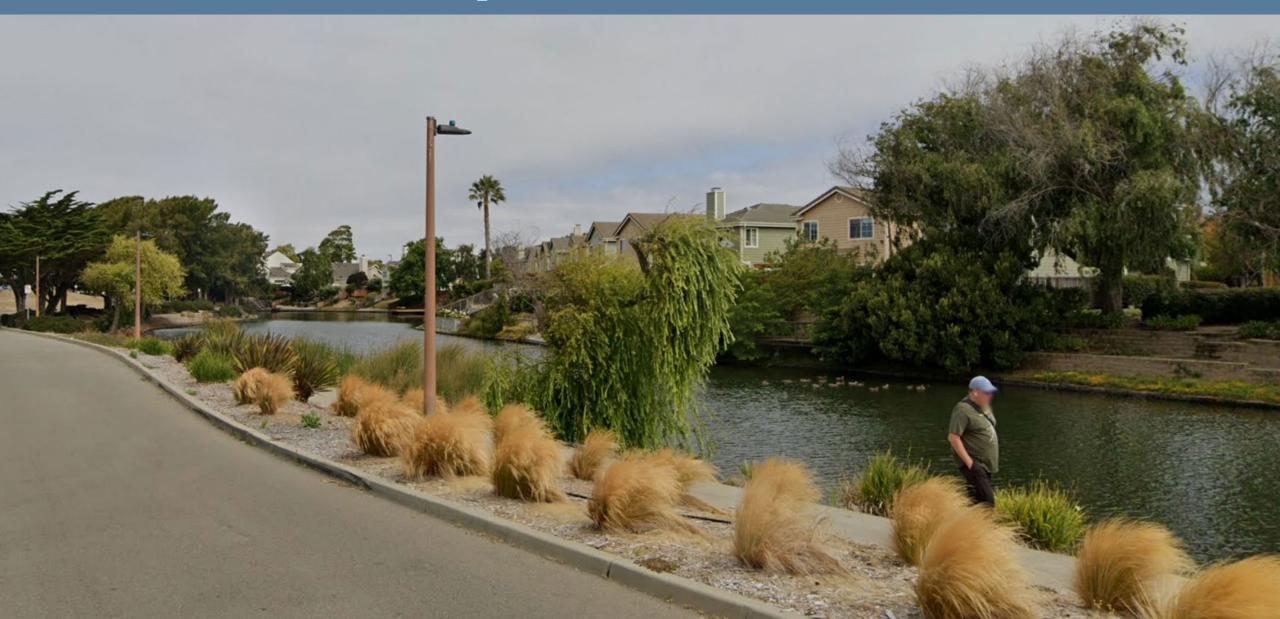
#### Linear Open Space + Open Channel

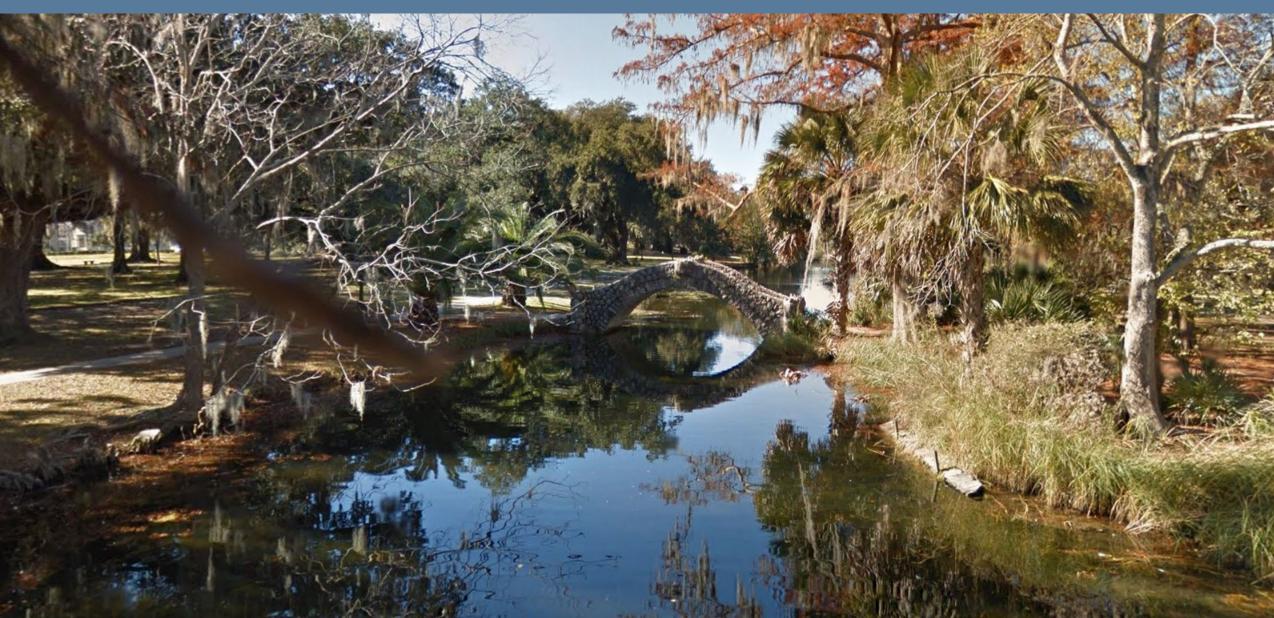
















#### Phase 1 Projects



Surfside Park Improvements: Elevating parking, restroom and active park areas

- Design-Build RFQ Oct. 2021
- Design-Build Contract Award Mar. 2022
- Design-Build Const. Start Mar. 2023

### Phase 1 Projects



Gulfspray and Beach
Reconstruction: Elevating roadways,
elevating parking and pedestrian
improvements

- Design RFQ Est. Nov. 2022
- Design Contract Award Est. Apr. 2023
- Construction RFB Est. Mar. 2024
- Construction Start Est. Aug. 2024

#### Phase 1 Projects



#### Linear Open Space and Channel:

Elevating roadways, creating open channel, installing new northern outfall to Eco Park, temporary channel aeration/circulation system, redirect existing Gulfbreeze piped conveyance to linear open space channel with backflow prevention, linear open space activation improvements, pedestrian improvements

- Design RFQ Est. Nov. 2022
- Design Contract Award Est. Apr. 2023
- Construction RFB Est. Jun. 2024
- Construction Start Est. Oct. 2024

\*Phase to include stakeholder outreach regarding level of protection trade-offs (elevation and conveyance sizing), long-term multi-modal transportation build-out, linear park design standards. Phase to include sediment monitoring and maintenance plan recommendations.

#### Initial Funding Plan

#### Available Budget: \$14.05M

| Bond 2020/2023                            | \$4.50M |
|---|---------|
| ARPA                                      | \$5.00M |
| Bond 2018 - Beach Avenue                  | \$1.00M |
| Bond 2018 - Gulfspray Pedestrian Access   | \$0.30M |
| Bond 2018 - NB Primary Access Project     | \$1.25M |
| (To be redirected to Gulfspray and Beach) |         |
| FY 2023 General Fund                      | \$2.00M |

#### **Future Phase Projects**



epen channel, installing new southern outfall at Pearl Ave, temporary channel aeration/circulation system, new piped conveyance in Shoreline Blvd and adjoining streets with backflow prevention, linear open space activation improvements, pedestrian improvements

Elevating roadways, competition of open channel, redirect existing piped conveyance to open channel with backflow prevention, complete linear open space activation improvements, pedestrian improvements

Elevate roadways, construct coastal barrier, install pump stations

#### Recommendation

Staff recommends City Council adopt the North Beach Drainage Improvement Project, approve the Phase 1 construction of the proposed strategy, and repeal Ordinance No. 031970.