

North Beach Drainage Improvements



Council Presentation April 18, 2023

Linear Open Space + Open Channel

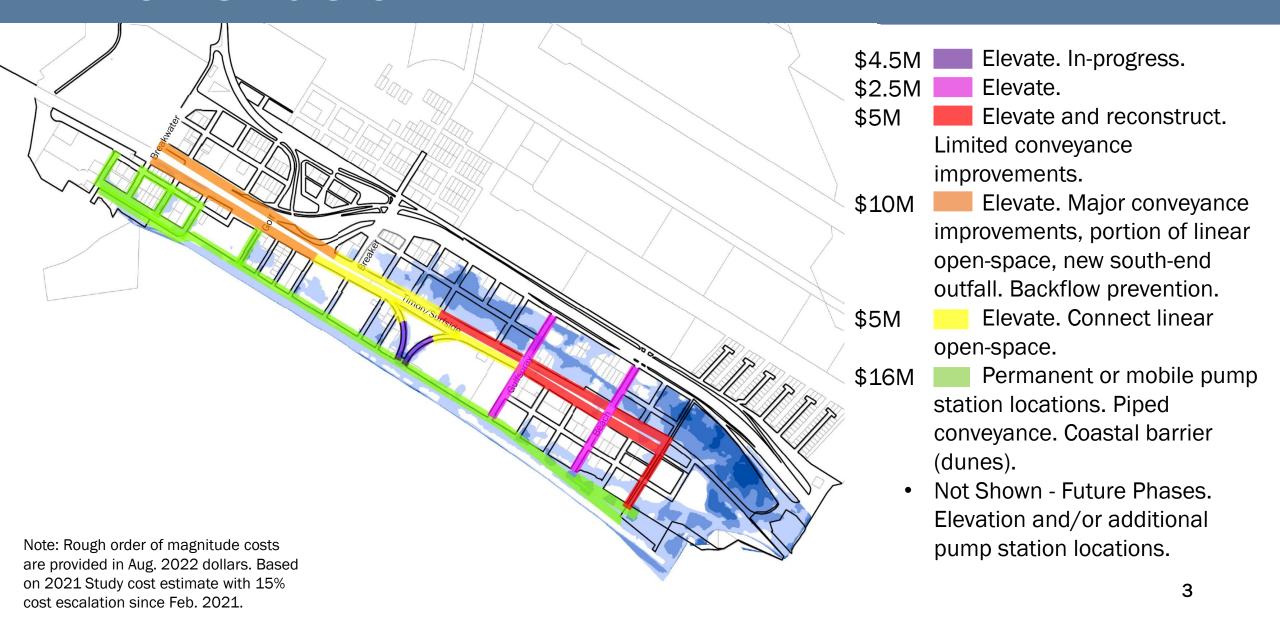




Emerging Design Guidelines

- Pedestrian connectivity to the beach
- Overall multi-modal connectivity
- Interest and attraction at varying tidal levels
- Accommodation for kayaking and paddle boats
- Areas that could allow future expansion into canal
- Water quality

Prioritization



Funding Plan

Available Budget: \$9.55M (Bond 2018 + ARPA + FY23 General Fund)*

First Priority (Gulfspray and Beach)

Elevate Beach Ave and Gulfspray.
Elevate beach access parking and provide pedestrian access to beachwalk.

Second Priority (Design and Partial Construction of Linear Open Space Channel)

- Elevate Timon and Surfside, Eco Park and Dolphin Park access (Sandbar Avenue).
- Limited conveyance improvements along elevated streets.
- Install new north-end outfall and portion of linear open-space open channel.
- Confirm compatibility with future linear open-space open channel.

*Available Budget:

ARPA	\$5.00M
Bond 2018 - Beach Avenue	\$1.00M
Bond 2018 - Gulfspray Pedestrian Access	\$0.30M
Bond 2018 - NB Primary Access Project	\$1.25M
FY 2023 General Fund	\$2.00M

MIG Recommendation

- Use a layered solution across the North Beach peninsula
- Approve Linear Park (Option 2) and Storm Drains w/o Elevation (Option 6)
- Install Coastal Barriers (Dunes)
- Elevate Key Access Routes
- Upgrade Stormwater Conveyance w/ Linear Park Canal
- Exercise Backflow Prevention
- Next Step: Hire an engineering firm to design the linear park and reconstruct North Beach roadways utilizing available funds