Ordinance adopting the North Beach Drainage Improvement Project Plan and repealing Ordinance No. 031970 authorizing a previous drainage solution.

**WHEREAS**, the North Beach Drainage Improvement Project ("Plan") with preferred drainage improvement projects was presented to City Council on August 30, 2022, by MIG, Inc.;

**WHEREAS**, the Plan includes priority projects to improve drainage on North Beach;

**WHEREAS**, the first priority project is to elevate Beach Avenue, Gulfspray Boulevard and the beach access parking with pedestrian access to the beachwalk;

**WHEREAS**, the second priority project is to design and construct a linear open space channel and elevate Timon, Surfside and access to Eco and Dolphin Parks; and

**WHEREAS**, other priority drainage improvement projects may include new outfalls, backflow prevention, stormwater pumps and additional elevations and channels.

### BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CORPUS CHRISTI, TEXAS:

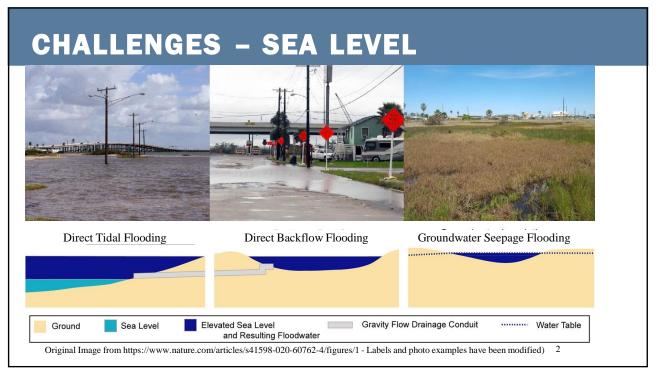
**SECTION 1.** Ordinance 031970 is hereby repealed.

**SECTION 2.** The attached **North Beach Strategic Development Plan**, providing for preferred future drainage improvement projects on North Beach, is hereby adopted.

	nance was read for the first t , 2022, by the following		cond reading on this the
Paulette Guajardo _		John Martinez _	
Roland Barrera _		Ben Molina _	
Gil Hernandez _		Mike Pusley _	
Michael Hunter _		Greg Smith _	
Billy Lerma _			
That the foregoing ordin of 2022, by	nance was read for the secony the following vote:	nd time and passed final	ly on this the day
Paulette Guajardo _		John Martinez _	
Roland Barrera _		Ben Molina	
Gil Hernandez		Mike Pusley _	
Michael Hunter _		Greg Smith _	
Billy Lerma _			
PASSED AND APPROV	VED on this the day	of	, 2022.
ATTEST:			
Rebecca Huerta City Secretary		Paulette Guajardo Mayor	

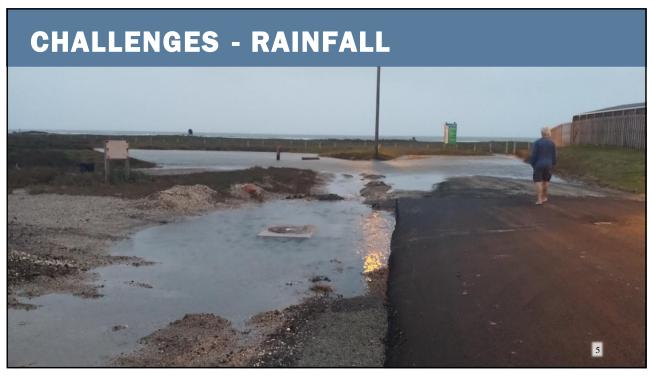
North Beach Strategic Development Plan

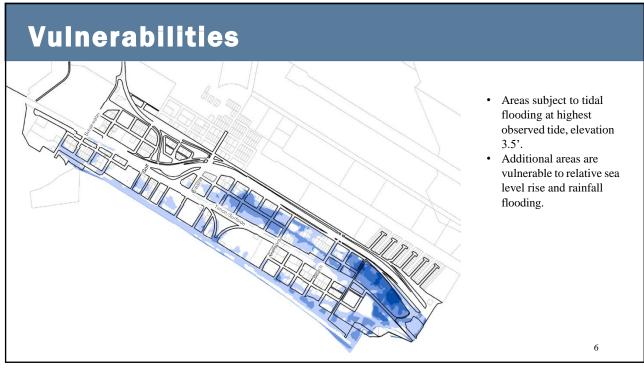


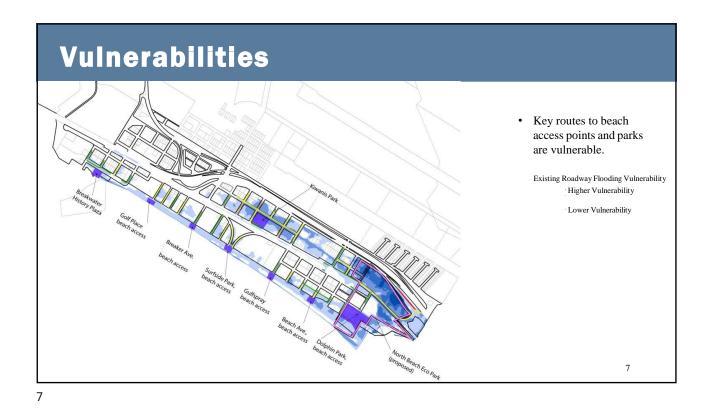


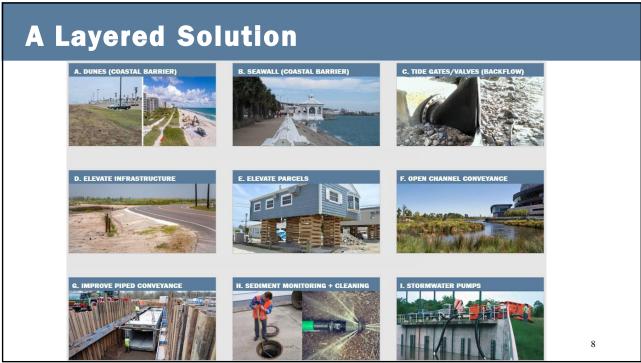












Intervention(s)	Direct Tidal Flooding	Backflow Flooding	Groundwater Seepage Flooding	Rainfall Induced Flooding
A. Dunes	0000			
B. Seawall	0000		000	
C. Tide Gates/Valves		0000		
D. Elevate Infrastructure	000	000	000	00
E. Elevate Parcels	000	000	000	00
F. Open Channel Convey.				00
G. Imp. Closed Convey.				00
H. Sed. Monitoring + Clean.				0
I. Stormwater Pumps			000	000
#1. Stormwater Convey. + Ditch Imp. "Option 1" G+H				000
#2. Linear Park "Option 2" A+D+E+F+G+H	00000	00000	00000	00000
#3. Nav. Canal "Option 3A" A+D+E+F+G+H	00000	00000	00000	00000
#4. Nav. Canal "Option 3B" A+D+E+F+G+H	00000	00000	00000	00000
#5. Storm Drains w/ Elev. A+D+E+G+H	00000	00000	00000	00000
#6. Storm Drains w/o Elev. + Pumps A/B+C+G+H+I	00000	00000	00000	00000

#### **Decision Criteria** Priority 1 Priority 2 Priority 3 #2. Linear Park "Option 2" \$\$ \$\$ 00000 00000 000 0000 00000 A+D+E+F+G+H #3. Nav. Canal "Option 3A" \$\$\$\$ \$\$\$ 00000 0000 00 $\mathsf{A} + \mathsf{D} + \mathsf{E} + \mathsf{F} + \mathsf{G} + \mathsf{H}$ #4. Nav. Canal "Option 3B" \$\$\$\$ \$\$\$ A+D+E+F+G+H #5. Storm Drains w/ Elev. 0 \$\$\$ \$\$\$\$ 000 0000 00000 $\mathsf{A} \text{+} \mathsf{D} \text{+} \mathsf{E} \text{+} \mathsf{G} \text{+} \mathsf{H}$ #6. Storm Drains w/o Elev. + \$\$\$ \$\$\$\$\$ 0000 0000 0 00000 Pumps A/B+C+G+H+I \* Delivery Timeframe category considers how quickly improvements can be implemented, including consideration of reliance on Public-Private agreements and interagency agreements. 10

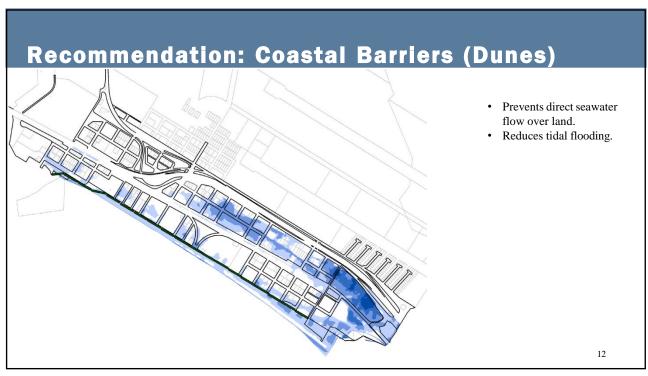
## **Decision Criteria**

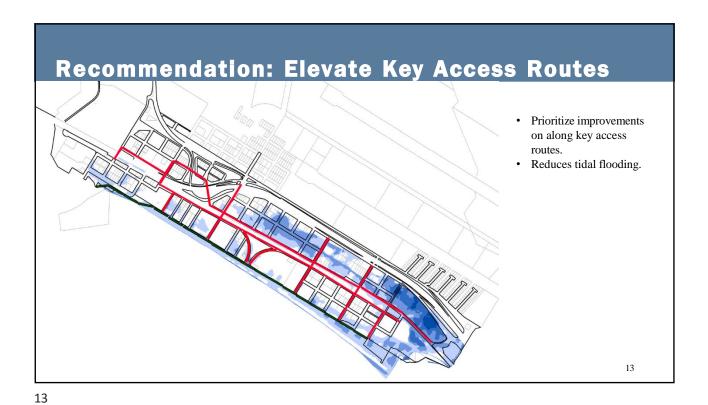
	Cost	Maintenance Cost	Accelerated Delivery Timeframe	Economic Dev. Commerce	Natural Systems Ecology	Local Oriented Amenity /Recreation /Openspace	Access/ Connectivity
#2. Linear Park "Option 2" A+D+E+F+G+H	\$\$		000	00000	00000	00000	0000
#3. Nav. Canal "Option 3A" A+D+E+F+G+H	\$\$\$\$	\$\$\$	•	00000	00	0000	00
#4. Nav. Canal "Option 3B" A+D+E+F+G+H	\$\$\$\$	\$\$\$	۰	00000	00	0000	00
#5. Storm Drains w/ Elev. A+D+E+G+H	\$\$\$	\$\$\$\$	000	0000	0	0	00000
#6. Storm Drains w/o Elev. + Pumps A/B+C+G+H+H	\$\$\$	\$\$\$\$\$	0000	0000	0	0	00000

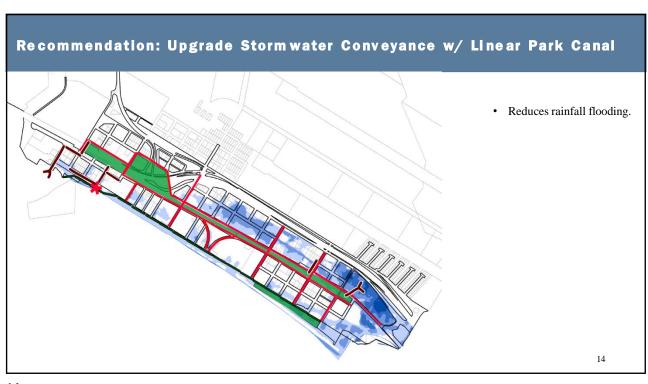
\* Delivery Timeframe category considers how quickly improvements can be implemented, including consideration of reliance on Public-Private agreements and interagency agreements.

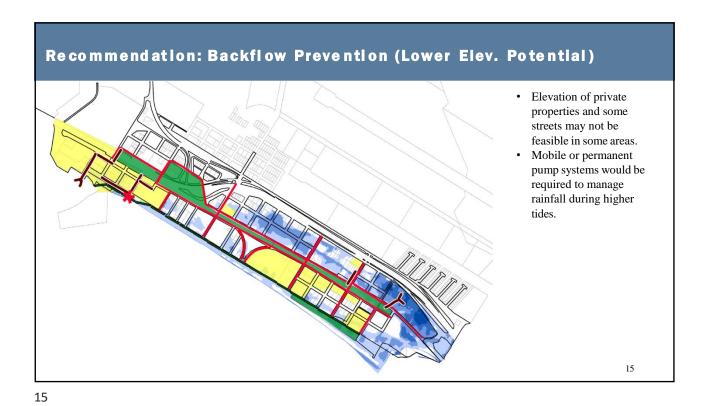
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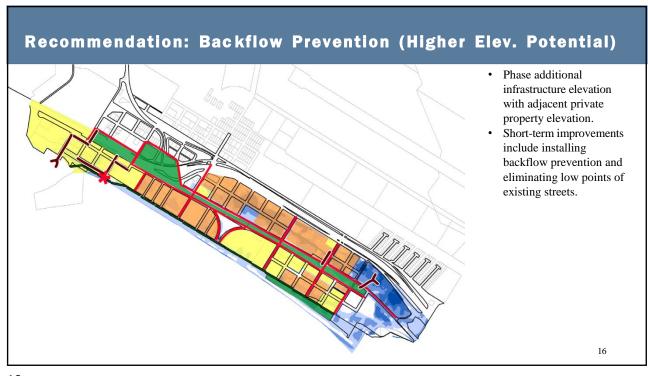
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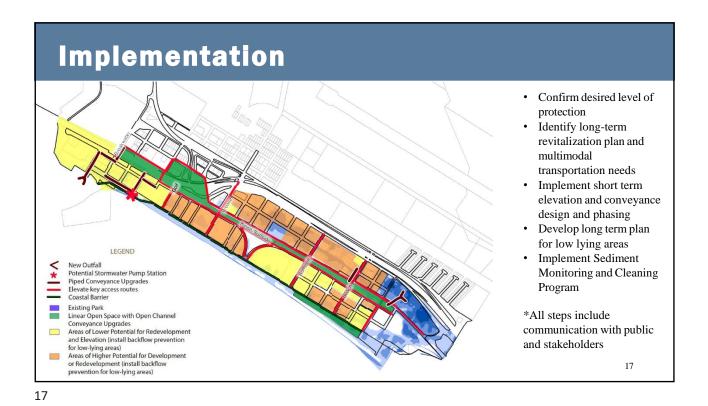














# **Initial Funding Plan**

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

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# 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